



सत्यमेव जयते

Government of West Bengal

Agriculture, Forests and Fisheries Department

**Annual Progress Report on
Forest Administration in
West Bengal**

For the Year

1948-49

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INTRODUCTORY

The year under report is the first complete financial year after the partition of Bengal. The demand for timber remained as heavy as in the previous year but the timber trade of coupe purchasers did not flourish owing to dislocation of banking facilities, booking restrictions, customs barriers and acute shortage of Railway wagons. In consequence, a huge stock accumulated in the purchasers' depots. The sale of dry and selection marking coupes in the Buxa Division had to be postponed. The purchasers, however, disposed of a portion of their timber to the Assam Rail Link Project and some to the local tea gardens and reduced the outstanding revenue against them from Rs. 18,84,881 to Rs. 13,11,508.

2. The six Post-war Development Projects which were taken in hand by the Forest Directorate in previous years were continued during the year under report. The expenditure in respect of Scheme No. 139—Rehabilitation of existing Government forests, Scheme No. 140—Training of Technical and other personnel and Scheme No. 143—Improvement of communications, buildings and water-supply in Government forests, was charged to "10—Forest" as normal expenditure of the Directorate and that in respect of the following projects was adjusted under "63B—Expenditure on Post-war Development Schemes":—

Scheme No. 138—Afforestation in the district of Nadia.

Scheme No. 141—Conservation of private forests and afforestation of private waste lands.

Scheme No. 142—Acquisition and afforestation of waste lands.

S. CHAUDHURI,

Conservator-General of Forests West Bengal

CALCUTTA,

The 14th December 1950.

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[Note.—Figures in brackets immediately following the figures of the year under report are the previous year's figures.]

CHAPTER I—CONSTITUTION OF STATE FORESTS.

1. Alteration in Areas (Form No. 7).

1. **Reserved forests.**—The total area of the reserved forests at the end of the year was 2,649 (2,648) square miles of which 2,630 square miles were under the Forest Directorate and 19 square miles under other Directorates and Departments.

The proposal for the reservation of Dolepchan Ridge in the Kalimpong Forest Division appertaining to the Crown State and comprising an area of 344.59 acres, pending in 1947-48, was finalised during the year. An area of 8.26 acres of St. Andrews Colonial Home Land was excluded from the original proposal and the final notification No. 4017For., dated the 22nd June 1948, declaring 336.33 acres as reserved forest was issued and formal possession of the area was taken over.

2. **Protected forests.**—There was no change in the area of the protected forests. It was 1 square mile as in the previous year's report.

The proposal for the transfer of a plot of land measuring approximately 26.46 acres of the Kalimpong Development Area to the Cinchona Directorate for a Cinchona Research Station at Kalimpong remained to be settled at the close of the year.

3. **Leased lands.**—The area remained at 1,207 square miles as in the previous year.

4. **Unclassed State forests.**—The area was 3(3) square miles.

5. The Forest Directorate levied fees on the export of forest produce from 3 square miles of Khas forests in the Jalpaiguri district.

6. A few acres of land had been taken up for afforestation in the districts of Nadia and Midnapore pending completion of acquisition proceedings.

7. The total areas of different classes of forests and lands at the close of the year and their percentages to the total area of the province were as follows:—

Class of forests.	Area (in sq. miles).		Percentage of the	
			total area of the province, viz., 28,215 square miles (after partition).	
Reserved forests	2,649	(2,648)	9.388	(9.385)
Protected forests	1	(1)	0.003	(0.003)*
Unclassed State forests	3	(3)	0.011	(0.011)
Khas forests over which the Forest Directorate has the right to levy fees for the export of forest produce therefrom.	3	(3)	0.011	(0.011)
Leased lands	1,207	(1,207)	4.278	(4.278)
Total	3,863	(3,862)	13.691	(13.688)*

*Corrected figures.

2. Forest Settlement (Form No. 8).

8. The settlement of 0.54 square mile of Dolepchan Ridge in the Kalimpong Division was in progress at the end of the preceding year. The area was finally altered to 0.53 square mile after resurvey and notified as finally settled during the year. A sum of Rs. 44,965 was paid to khasmahal tenants as compensation for their crops and houses through the Civil authorities during the year.

9. The proposal for the acquisition of 2.65 square miles of land at Arabari in the Midnapore Division was not finally settled during the year.

3. Demarcation (Form No. 9).

10. Six miles of boundaries of reserved forests were artificially demarcated during the year at a cost of Rs. 8,090. The total length of boundaries of this class of forests stood at 1,746 miles against 1,740 miles of the previous year. Seven hundred and fifty-eight (764) miles of the existing boundaries were repaired at a cost of Rs. 9,940 (Rs. 8,717).

11. Six miles of boundaries of unsettled forests in the Midnapore Division were artificially demarcated during the year at a cost of Rs. 1,160. The total length of boundaries of this class of forest stood at 9 (3) miles.

4. Forest Surveys (Form No. 10).

12. No special surveys were undertaken by the Survey of India. Local Surveys by the forest staff were carried out as usual.

CHAPTER II—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) *Preparation and Control of Regular Working Plan (Form No. 11).*

13. Particulars regarding the preparation of working plans are to be found in paragraph 52 of this Report.

14. The prescriptions of the existing working plans were adhered to as far as circumstances permitted and deviations sanctioned where necessary.

(b) *Preliminary Working Plan Report.*

15. No preliminary working plan report was prepared and submitted during the year.

2. Communications and Buildings (Form No. 12).

(a) *Roads and Bridges.*

16. Rs. 35,350 (Rs. 1,46,476) was spent on construction of new roads, paths and bridges.

The total expenditure on repairs to roads, paths and bridges was Rs. 1,39,470 (Rs. 97,012).

17. The total length of the roads and paths maintained at the end of the year was:—

			Cart roads.	Bridle path.	Other paths.
			Miles.	Miles.	Miles.
Northern Circle	..	..	656 (642)	586 (612)	157 (124)
Southern Circle	..	..	....	....	1 (1)
Total	..		656 (642)	586 (612)	158 (125)

(b) *Buildings.*

18. The expenditure incurred on construction of new buildings and repairs to old buildings amounted to Rs. 3,28,626 (Rs. 4,90,459) and Rs. 72,650 (Rs. 97,313) respectively.

(c) *Other works.*

19. The expenditure incurred on other new works, viz., wells, water pipes, drainages, etc., was Rs. 43,606 (Rs. 96,395) and that on repairs was Rs. 39,521 (Rs. 92,509).

3. Protection of forests.

(a) *General protection (Form No. 13).*

20. The following statement compares the offences recorded during the year with those of the preceding year and the average of the last three years:—

Classes of offences.	Number of cases reported during 1948-49.				Number of cases reported during 1947-48.	Average of the preceding 3 years ending 1947-48.	Difference (columns 5 and 7).	Compensation realised.	Number of persons involved.	Average to each man.
	Taken into Court.	Dealt with by Divisional Forest Officers.	Undetected cases.	Total.						
1	2	3	4	5	6	7	8	9	10	11
Injury to forest by fire.	..	1	2	3	35	44	- 41	Rs.		Rs. a. p.
Unauthorised felling.	30	553	20	609	643	552	- 157	21,936	3,384	6 7 9
Unauthorised grazing.	..	515	..	515	570	645	- 130			
Other offences ..	7	928	6	941	1,057	1,138	- 107			
Total ..	37	1,997	34	2,068	2,305	2,397	- 311	..	..	..

The percentage of decrease as compared with the average of the preceding 3 years was 13. The decrease under "Injury to forest by fire" was due to favourable climatic conditions, that under "Unauthorised grazing" and "Other offences" was attributed to better patrolling and greater vigilance on the part of forest staff. The increase under "Unauthorised felling" was due to more concentration and activity of the subordinate staff.

21. The 941 cases under "Other offences" consisted of—

(i) Illicit removal of forest produce	... 464
(ii) Violation of conditions laid down in permits	... 32
(iii) Illicit hunting and shooting	... 14
(iv) Illicit fishing	... 40
(v) Miscellaneous	... 391
Total	... 941

22. The number of cases disposed of during the year was 2,002 (2,246) involving 3,439 (3,602) persons. These include 120 (133) cases pending from the previous year; 152 cases remained pending at the close of the year.

23. Cases taken to Court numbered 117 of which 24 cases involving 37 persons ended in conviction and 6 cases involving 9 persons in acquittals. Eighty-seven cases remained pending at the close of the year. The punishment inflicted was on the whole adequate.

24. Divisional Forest Officers compounded 1,963 cases involving 3,384 persons under section 68 of the Indian Forest Act, 1927. The total compensation realised was Rs. 21,936 which represents Rs. 11-2-9 per case and Rs. 6-7-9 per person as compared with Rs. 21,245 or Rs. 9-11-8 per case and Rs. 6-1 per person respectively in the previous year. Nine cases involving 9 persons were let off with warning by the Divisional Forest Officers.

(b) *Fire Protection (Forms Nos. 14 and 15).*

25. Protective measures were undertaken on the same lines as in previous years, viz., clearing of lines, employment of patrols and early burning. The area under protection was 375,045 (375,007) acres. The cost of fire conservancy operation during the year was Rs. 10,916 (Rs. 9,934). There were 13 (53) cases of fire which burnt 211 (2,823) acres in the fire protected area. The percentage of success was 99.9 (99.2). No serious damage was done to the growing stock.

The Nepal and Sikkim portions of the frontier fire lines were cleared as usual by the respective Durbars. The Darjeeling-Himalayan Railway Company cleared the fire trace above the Tista Valley Railway line from Giellekholā to Riyang.

(c) *Regulation of grazing by cattle (Forms Nos. 16 and 17).*

26. Two thousand four hundred and eighty-seven (2,486)* square miles of forests were entirely closed to grazing, 2 (2)* square miles were open to the grazing of all animals throughout the year, 164 (164) square miles were open throughout the year and 3 (3) square miles for part of the year to the grazing of non-browsers only.

27. The number of cattle impounded during the year was 3,236 against 2,275 of the previous year. The increase was due to greater vigilance on the part of subordinate staff.

28. The number of cattle stall-fed in the Darjeeling and Kurseong Divisions was 232 (354), in addition, forest-villagers and forest employees were permitted to stall-feed 59 (45) cattle within their respective compounds free of charge.

*Corrected figures.

There were 9 (10) Government *bathans* used for stall-feeding during the year. The average number of stall-fed cattle occupying *bathans* in the Darjeeling Division during the year was 223 (346). In addition monthly permits for collection of fodder for 906 (1,539) head of cattle were also issued during the year. Open grazing was confined to the Singalila and Tonglu Ranges and to cattle belonging to Keventer's farms in Senchal Pasture.

(d) *Injuries from natural causes and protective measures undertaken.*

29. The damage done and measures undertaken whenever possible for the protection of forests against injuries from natural causes are described below:—

(i) *Insects*.—Oak (especially *Sungre Katus*) seeds were damaged by insects in Tonglu Range of the Darjeeling Division. Almost all *kimbu* (*Morus laevigata*) trees were attacked by a larva in Badamtam block of Darjeeling Range. Specimens of insect-attacked *kimbu* trees have been sent to the Forest Research Institute, Dehra Dun, for identification.

(ii) *Borers and defoliators*.—Defoliators did a certain amount of damage to the plantations in Sukna and Sevoke Ranges and to the dry *sal* trees in the Moraghat Range of the Jalpaiguri Division and in the Damampur and Rajbhatkhawa Ranges of the Buxa Division.

(iii) *Fungi*.—A few *sal* trees were found to have been attacked with *Polyporus shorea* in Apalchand and Moraghat Ranges of the Jalpaiguri Division.

A few *sal* (*Shorea robusta*) and *lampate* (*Duabanga sonneratioides*) trees of older plantations were noticed dying due to attack of rootfungi in Rajbhatkhawa Range of the Buxa Division.

(iv) *Loranthus*.—Almost all the older plantations were affected by *loranthus*. They were cut out and burnt as far as practicable at the time of climber cutting and thinning.

(v) *Weeds*.—Maling bamboos and *ashelo* (*Rubus* spp.) continued to be the enemy of older plantations. Many of them were weeded in the Darjeeling Division. Many trees in Upper Tondou Range in the Jalpaiguri Division were badly infested with several species of climbers, viz., *Spatholobus*, *Vitis*, etc. Invasion of *assamlota* (*Eupatorium odoratum*) was profuse wherever there was any opening in the canopy. Normal weedings in plantations were carried out.

(vi) *Climbers*.—Climbers were cut in the usual way according to the prescriptions of the Working Plans with beneficial effect.

(vii) *Wild animals*.—Deer, bison, wild elephant, wild pig and monkey continued to damage younger plantations and forest villagers' crops as usual.

(viii) *Earthquake*.—None was reported.

(ix) *Landslips*.—The damage was not heavy.

(x) *Frost*.—Frost did considerable damage to younger plantations in the Darjeeling and Kurseong Divisions.

(xi) *Snow*.—Snowfall during the later part of the year did considerable damages to 1948 plantations of Tapkedara of Takdah Range in the Darjeeling Division.

(xii) *Hail*.—A heavy shower of hail in the later part of the year did a considerable damage to the tender shoots of the young seedlings in the Kurseong Division.

(viii) *Erosion*.—No appreciable damage was noticed during the year under report.

(xiv) *Wind and cyclone*.—Heavy damages to the high forests and older plantations were caused in the Buxa Division due to whirling cyclone during the year under report, specially in Rajabhatkhawa and Damanpur Ranges. About 10,000 *sal* trees were uprooted.

CHAPTER III—SILVICULTURE.

I—System of management.

30. The areas under different silvicultural systems during the year were as follows:—

Silvicultural system.	Area in square miles.	Percentage of the total area.
(1) Clear-felling followed by artificial re-stocking	497	18.9
(2) Selection and improvement fellings ..	2,014	76.6
(3) Simple coppice	7	0.3
(4) Protection forests with no regular prescription for fellings.	112	4.2
Total ..	2,630	100.0

II—Afforestation and regeneration (Form No. 18).

31. In the Northern Circle afforestation work was carried out in (1) Development Area Protected Forests and (2) Dolepchan Slip Reserve comprising 173.03 and 188.18 acres respectively. The former block is composed of 16 small scattered plots of different sizes and the latter is a compact area.

Afforestation work started previously was continued during the year under report. The details of work carried out in each area are given below:—

(i) *Development Area Protected Forests*.—The area of 146.57 acres has been worked over by way of raising plantations and transplanting seedlings of fast growing species, viz., *saur* (*Betula* spp.), *utis* (*Alnus nepalensis*), *pipli* (*Bucklandia populnea*), *Cupressus cashmeriana*, etc. This includes a new area of 3.30 acres planted up during the year. The total cost of raising new plantations and maintenance of the older ones including protective works undertaken in this area by erection of hand packed walls, putting cuttings of the species, making contour drains and check dams and broadcasting seeds in slips amounted to Rs. 4,586 (Rs. 2,402).

(ii) *Dolepchan Slip Reserve*.—The entire area of old plantations was maintained by filling up vacancies by transplanting and clearing where necessary. The cost amounted to Rs. 1,970 (Rs. 1,478) including pay of *mali*.

The cost of protective works done to protect slips amounted to Rs. 2,057 (Rs. 2,410).

Bamboo rhizomes were planted up in slip areas and bamboo seeds were sown in Tashiding Block of Kalimpong Range.

In the 24-parganas Division of the Southern Circle *golpatta* (*Nipa fruticans*) seeds were planted up as an experimental measure over an area of 7 acres free of cost. Germination in the Basirhat Range was 60 per cent. but it was only 5 per cent. in the Namkhana Range due to excessive salinity.

In the Nadia district of the Central Division the full programme of afforestation work could not be carried out as no formal possession of the lands under acquisition was received during the year. Only a small area of 150 acres could be planted up with the consent of the land owners. The total cost of creation and upkeep of plantations in this Division during the year amounted to Rs. 25,053 including Rs. 1,239 being the price of barbed wire.

III—Establishment of Reproduction (Form No. 18).

(a) *Mainly natural.*

32. Natural regeneration of *sal* (*Shorea robusta*) was absent as usual though that of miscellaneous species was sparsely present in place where conditions were suitable. *Khair* (*Acacia catechu*) and *sissoo* (*Dalbergia sissoo*) continued to come up over silt deposits and unstable river beds overgrown with *kush* grass.

(b) *Mainly artificial.*

33. There was no change in the main method of regeneration which continued to be clear-felling followed by artificial re-stocking.

IV—Tending.

34. Climber cutting, weeding and thinnings were carried out for the general upkeep of the existing plantations as far as funds and labour permitted.

35. The total cost of afforestation and regeneration operations including the upkeep of plantations was Rs. 2,09,812 (Rs. 1,88,316) of which Rs. 1,28,727 was spent in the Northern Circle and Rs. 81,085 in the Southern Circle. The expenditure in the Southern Circle was incurred on the formation of plantations on lands taken over with the consent of the owners pending completion of acquisition proceedings.

CHAPTER IV—EXPLOITATION.

36. **Outturn of forest produce (Forms Nos. 19 and 20).**—The following statement shows the total outturn of forest produce:—

Particulars.			1948-49.		1947-48.	
Timber (in thousands of c.ft.)	..	..	5,306		3,780	
Fuel (in thousands of c.ft.)	..	..	17,371		15,056	
			Number or quantity.		Number or quantity.	
			Rs.		Rs.	
<i>Minor forest produce.</i>						
Bamboos (Nos. in thousands)	..	..	854	16,391	1,490	18,716
<i>Golpatta</i> (maunds)	..	..	99,050	6,849	36,685	2,499
Other types	..	..	..	3,33,160	..	1,79,291
Total			..	3,56,400	..	2,00,506

The increase under timber, fuel and *golpatta* was due to more demand and better facilities for transport than those in the previous year.

The decrease under bamboos was due to less demand from tea gardens.

The increase under other kinds of produce was mainly due to the directorial manufacture of *khair* in the Buxa Division.

37. Extraction by departmental agency (Forms Nos. 21 and 22).—(i) Timber.—The following statement shows the outturn of timber extracted departmentally during the year and the approximate financial results neglecting outstandings and end of year adjustments:—

Particulars.	Northern Circle.	Southern Circle.	Total for West Bengal.	
			1948-49.	1947-48.
	C.ft.	C.ft.	C.ft.	C.ft.
(i) Cut or extracted or otherwise received into departmental stock.	906,773	4,023	910,796	529,751
	Rs.	Rs.	Rs.	Rs.
(ii) Corresponding expenditure on departmental extraction (A.I.a.).	8,52,335	699	8,53,034	4,76,428
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(iii) Approximate average direct cost per c.ft.	0 15 0	0 2 9	0 15 0	0 14 5
	C.ft.	C.ft.	C.ft.	C.ft.
(iv) Sold or otherwise disposed of ..	476,743	6,435	483,178	596,902
	Rs.	Rs.	Rs.	Rs.
(v) Value of sales of departmentally extracted timber (Form 26, R.I.a.).	13,38,658	1,374	13,40,032	8,60,578*
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(vi) Approximate average price per c.ft.	2 12 11	0 3 5	2 12 4	1 7 1*
(vii) Average gross surplus per c.ft.	1 13 11	0 0 8	1 13 4	0 8 8*

(ii) *Fuel, bamboos and minor produce.*—The following table shows the results on the year's working:—

Particulars.	Northern Circle.	Southern Circle.	Total for West Bengal	
			1948-49.	1947-48.
	Rs.	Rs.	Rs.	Rs.
(1) Value of sales of fuel, bamboos and minor produce extracted departmentally (Form No. 26).	2,56,746	13	2,56,759	1,04,835*
(2) Expenditure on departmental extraction of fuel and minor produce.	3,08,705	..	3,08,705	1,53,390
(3) Net gross surplus (+) or deficit (—) ..	-51,959	+13	-51,946	-48,555*

The deficit during the year under report was due mainly to the departmentally manufactured *khair* (*katha*) to the estimated value of Rs. 1,58,400 remaining undisposed of at the close of the year.

38. Siliguri Saw Mill.—The mill continued to work satisfactorily during 1948-49 in consideration of the fact that its working resulted in a net profit of Rs. 1,60,098-3-9 against Rs. 3,33,408-2-9 in 1947-48, Rs. 2,43,210-12-11 in 1946-47 and Rs. 2,55,878-10-8 in 1945-46. The decrease in profit was due to a less quantity of timber being available for sawing in the mill owing to difficulty in obtaining railway trucks and consequent delay in extraction of logs. The cost of production went down from 13-78 annas per c.ft. in 1947-48 to 12-75 annas per c.ft. in 1948-49.

*Corrected figures.

The mill was run as economically as possible and practically without any serious breakdown. A total of 209,083·88 c.ft. of logs were sawn against 226,092 c.ft. in 1947-48.

The total outturn of sawn timber was 161,733·13 c.ft. (171,085·19 c.ft.) and the total quantity sold amounted to 150,268·36 c.ft. (149,119·02 c.ft.).

The percentage of wastage was 22·64 against 23·97 in 1947-48. The decrease in wastage is reported to be due to the logs being sawn into all possible utilisable sizes.

The closing stock of sawn timber on the 31st March 1949 stood at 36,671·55 c.ft. (71,745·68 c.ft.). The increase in the closing stock is due to the difficulties of railway transport of timber from Siliguri which was still continuing.

A total of 191,392·8 c.ft. of round logs was issued to the mill for sawing against 245,884·6 c.ft. during 1947-48 and 10,037·37 c.ft. of round logs were sold for Rs. 16,919-1-7 against 14,859·91 c.ft. for Rs. 20,560-3 during 1947-48.

39. **Extraction by purchasers.**—(1) *Timber and fuel.*—Timber and fuel coupes in the hills were sold at valuations based on estimated outturn and royalty rates. The existing system of disposal of timber to traders, tea gardens and other Government Departments continued to be done by public auction and private negotiations. Individual trees were also occasionally sold on measurement according to the standard schedule of rates. Fuel was sold on permits at scheduled rates. The following statement summarises the year's working results neglecting outstandings and end-of-year adjustments:—

Particulars.	Northern Circle.	Southern Circle.	Total for West Bengal	
			1948-49.	1947-48.
<i>Timber.</i>				
(i) Volume extracted by purchasers (in thousands of c. ft.).	1,881	2,511	4,392	3,239
	Rs.	Rs.	Rs.	Rs.
(ii) Value of sales of timber extracted by purchasers (Form No. 26, R.II.a.).	24,37,746	1,78,477	26,16,223	42,34,031*
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(iii) Average rate of royalty realised per c. ft.	1 4 9	0 1 2	0 9 6	1 4 11*
<i>Fuel.</i>				
	C. ft.	C. ft.	C. ft.	C. ft.
(i) Volume extracted by purchasers (in thousands of c. ft. solid).	14,004	1,398	15,402	14,208
	Rs.	Rs.	Rs.	Rs.
(ii) Value of sales of fuel extracted by purchasers (Form No. 26, R.II.b.).	6,37,700	52,901	6,90,601	5,93,122*
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(iii) Approximate average royalty per 100 c. ft. stacked or 50 c. ft. solid.	2 4 5	1 14 3	2 3 10	2 1 5*

(2) *Minor produce.*—Bamboos and other minor produce were sold to purchasers mostly under permits at scheduled rates. Details of revenue received on the various items have been shown in Annual Form No. 20 for the year. The value of sales during the year amounted to Rs. 1,47,917 (Rs. 1,13,994).

40. During the year under report grazing was provided for 85 buffaloes, 2,040 cows and bullocks, 77 goats and sheep and 37 other animals. Fees received during the year was Rs. 16,711, *vide* Form No. 17.

*Corrected figures.

41. **Rights and privileges.**—There were no rights over the reserved forests under management of this Directorate except some concessions that were allowed to the Manager of the Government Cinchona Plantations at Munsong and Rongpo by the Kalimpong Division. The Manager was allowed the privilege of issuing free permits for forest produce required for his plantations.

The Khasmahal tenants were also allowed to enjoy the privilege of free supplies of leaf mould and grazing at concession rates which fetched a revenue of Rs. 6,195 against Rs. 4,510 in the previous year. The estimated royalty on grazing that would have accrued if they were charged at full rate would have been Rs. 18,959 against Rs. 15,842 in the previous year. The difference, therefore, amounted to Rs. 12,764.

42. **Free grants.**—The following statement summarises the quantities and value of forest produce given away free or at concession rates as compared with the previous year and furnishes information required under the Inspector-General of Forests' circular No. 9-113-7, dated the 26th June 1911 :—

Particulars.	Timber.		Fuel.		Bamboos.		Grass and grazing.	Other minor produce.	Total.
	Cubic feet.	Value.	Cubic feet.	Value.	Numbers.	Value.	Value.	Value.	Value.
		Rs.		Rs.		Rs.	Rs.	Rs.	Rs.
Right holders ..	..	..	..	..	..	..	..	..	..
Free grantees ..	3,362	943	449,281	12,591	16,850	389	8,399	1,000	23,322
Grants at concession rates	..	..	..	..	..	..	9,224	..	9,224
Total ..	3,362	943	449,281	12,591	16,850	389	17,623	1,000	32,546
	(11,315)	(2,487)	(332,587)	(9,585)	(57,880)	(357)	(12,942)	(1,161)	(26,532)

43. The estimated value of free grants of forest produce and grazing made to forest villagers during the year in return for free labour supplied in sowing, planting, weeding, etc., in plantation is shown in the following statement :—

Division.	Timber.	Fuel.	Bamboos.	Grazing and fodder.	Minor produce.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Darjeeling ..	..	4,165	984	1,527	600	7,276
Kalimpong ..	645	3,385	389	4,352	457	9,228
Kurseong ..	..	272	..	9	..	281
Jalpaiguri ..	119	934	..	184	16	1,253
Buxa ..	179	2,626	..	3,806	527	7,138
Total ..	943	11,382	1,373	9,878	1,600	25,176
	(2,512)	(7,014)	(995)	(5,184)	(1,281)	(16,986)

CHAPTER V—FINANCIAL RESULTS.

44. The following statement summarises the revenue and expenditure during 1948-49:—

Particulars.	1948-49.	1947-48.
	Rs.	Rs.
Revenue.. .. .	61,56,901	45,91,022
Expenditure—		
A—Conservancy and Works	35,36,754	22,30,097
Deduct—A. VIII—Amount recoverable from other Governments, Departments, etc.	11,09,936	4,50,676
Net Expenditure under “ A ”	24,26,818	17,79,421
B—Establishment	16,12,468	14,29,772
D—Charges in England	25,088	35,153
F—Special Development Programme	5,42,558*	10,64,653
Total expenditure	46,06,932	43,08,999
Surplus	15,49,969	2,82,023

*Debited to 63B and not shown in Annual Form No. 24.

45. The prescribed analysis of the receipts and expenditure shows that of the receipts 89.2 (91.7) per cent. came from major produce, 1.9 (2.1) per cent. from minor produce, 0.5 (0.6) per cent. from grazing, 8.6 (6.2) per cent. from miscellaneous sources and 0.2 (0.6) per cent. went out as refunds, while of the expenditure 31.1 (20.3) per cent. was incurred on extraction, 11.6 (6.8) per cent. on roads and buildings, 0.2 (0.2) per cent. on fire protection, 3.0 (3.0) per cent. on cultural operations, 2.4 (2.0) per cent. on live-stock, stores and plant, 0.2 (0.1) per cent. on working plans, 4.1 (8.9) per cent. on miscellaneous works, 35.0 (33.2) per cent. on administration, 0.6 (0.8) per cent. on charges in England and 11.8 (24.7) per cent. on Special Development Programme.

46. The outstanding revenue at the close of the year amounted to Rs. 13,11,508 against Rs. 18,84,881 at the beginning.

47. The balance of timber, fuel, bamboos and other minor produce in stock at forest and sale depots and the value thereof are shown in Annual Forms Nos. 21 and 22. The net difference in favour of the year was Rs. 16,03,047.

48. Annual Form No. 23 which is an abstract of the value of live and dead stock shows a balance of Rs. 5,94,180 in favour of the year.

49. The outstandings due by contractors and disbursers amounted to Rs. 19,933 at the commencement and Rs. 23,742 at the close of the year, *vide* Annual Form No. 27 for the year.

CHAPTER VI—RESEARCH AND EXPERIMENTS.

Silviculture.

50. The year's work was carried out in accordance with the quinquennial programme sanctioned for the period April 1945 to March 1950, in the Darjeeling, Kurseong, Kalimpong, Jalpaiguri and Buxa Divisions. Routine works were also carried out in the Experimental nursery-cum-garden, two Sample plots and one Experimental plot in the Midnapore Division.

Experimental Silviculture.

51. (i) **General.**—Routine observations and measurements were carried out in 30 Experimental plots, 35 Sample plots, 2 Diameter Increment plots, 8 Linner Sample plots, 6 Preservation plots and 3 Experimental nurseries and gardens.

One Experimental plot and one Sample plot were newly laid out in the 24-Parganas Division. One temporary Sample plot in 5-year old *sal* (*Shorea robusta*) coppice in the private forests at Jhargram in the Midnapore Division was sub-divided into two sub-plots.

(ii) **Natural Regeneration.**—(A) *Sal* (*Shorea robusta*) forests.—Experiments on the natural regeneration of *sal* (*Shorea robusta*) forests of various types were continued on the lines of the Kamrup method and no new experiments were undertaken during the year. Natural regeneration of *sal* (*Shorea robusta*), however, did not progress as satisfactorily as expected chiefly due to the set-back suffered by the Experimental plots during the last war period. Consequently the plots have lost much of their value. Artificial regeneration of *sal* (*Shorea robusta*) is now a well established practice in this province and the necessity for the continuation of these experiments appeared doubtful. The matter is under consideration.

In the Divisional Experimental plots on the natural and natural-cum-artificial regeneration of *sal* (*Shorea robusta*) cultural operations like cleaning, climber cutting and burning were carried out. At Raimatong in the Buxa Division, natural regeneration of *sal* (*Shorea robusta*) has become fully established, in patches though, and the overwood has been completely removed. The stocking and growth of the plants are reported to be satisfactory.

(B) *Riverain forests.*—No experiments are now in progress in this type of forests.

(C) *Tidal forests.*—The progress of recruitment and rate of growth of littoral species, mostly *white bean* (*Avicennia alba*) and *goran* (*Ceriops roxburghiana*) with a sprinkling of *gengwa* (*Ecacecaria gallocha*) continued to be studied in a 10-acre Experimental plot at Alampur in the Midnapore Division. This year's enumeration shows an increase in the recruitment of the species mentioned.

An area of about 529 acres of tidal flats at Alampur was protected against damage from men and cattle and seeds of *goran* (*Ceriops roxburghiana*), *passur* (*Carapa moluccensis*), *dhundal* (*Carapa obovata*), *garjan* (*Rhizophora conjugata*), *baen* (*Avicennia alba* and *A. marina*) and *golpatta* (*Nipa fruticans*) were sown there. Most of these species did well along the banks of creeks (*khals*) but very poorly in the interior. *Golpatta* (*Nipa fruticans*) seeds did not, however, germinate by the end of the year. Generally speaking the reafforestation of the tidal flats bids fair to succeed, provided more and fresh seeds are used for the purpose and protection from men and cattle is rigidly enforced.

At Sajnakhali in the 24-Parganas Division experiments were carried out to find out if blanks in the tidal forests could be restocked by broadcasting seeds of *goran* (*Ceriops roxburghiana*), *passur* (*Carapa moluccensis*), *dhundal* (*Carapa obovata*) and *garjan* (*Rhizophora conjugata*). The results have not been successful.

One sample plot in the same division at Bagna was laid out to determine the volume increment and development of a thinned crop of *keora* (*Sonneratia apetala*).

(iii) **Assisted Natural Regeneration.**—Coppice regeneration was supplemented by broadcasting seeds of various fast-growing miscellaneous species (mainly fuel spp.) followed by rains weeding, in the fuel coupes of the Buxa Division. Timely and intensive cleaning, where carried out, produced satisfactory results.

Natural regeneration of various spp., such as *kadam* (*Anthocephalus indicus*), *malata* (*Macaranga denticulata*), *siris* (*Albizia* spp.), etc., was assisted with the artificial regeneration of *jarul* (*Lagerstromia flos-reginae*), *sal* (*Shorea robusta*), *sissoo* (*Dalbergia sissoo*), etc., in the fuel coupes of the Bholka Range, Buxa Division.

(iv) **Seeds.**—There was profuse seeding of *sal* (*Shorea robusta*) and most other species during the year under report. Territorial Divisional Forest Officers made direct arrangements amongst themselves for the collection and supply of seeds of indigenous species. Seeds of many valuable species were imported from Burma and other provinces while seeds of various local species were supplied to other provinces and the Forest Research Institute, Dehra Dun, through the agency of the Silviculturist.

Germination tests were carried out in the various Silvicultural Nurseries.

The flowering of *Bambusa tulda* (*tarabans*), *Bambusa balcooa* (*champati bans*) and *Bambusa arundinacea* early in March 1949 was reported from the Midnapore Division.

(v) **Nursery and Garden Work.**—Routine tests were carried out in the three Silvicultural nurseries and gardens at Takdah, Sukna and Arabari.

(vi) **Artificial Regeneration.**—(A) *West plains sal* (*Shorea robusta*) forests (*Eastern Terai type*).—(1) The growth of *sal* (*Shorea robusta*) in the plantations specially on well-drained soil was on the whole satisfactory.

Loranthus continued to infest the older *sal* (*Shorea robusta*) plantations of the Jalpaiguri, Kurseong and Buxa Divisions. The *sal* root fungus (*Polyporus shoreae*) was noticed, especially in the moist type of forests.

(2) *Jarul* (*Lagerstromia flos-reginae*) continued to be the best timber species for restocking low lying areas and teak (*Tectona grandis*) continued to be raised with success, though on a small scale, in the drier types of *sal* (*Shorea robusta*) forests.

(3) Softwood species, viz., *pitali* (*Trewia nudiflora*), *simal* (*Bombax malabaricum*) in admixture with *lahasunc* (*Ancora rohituka*) as an auxiliary species on comparatively well-drained soil and *kadam* (*Anthocephalus indicus*) on poorly drained soil continued to be raised successfully in the Buxa Division for restocking wet mixed *sal* (*Shorea robusta*) forests of extremely poor quality.

(B) *Upper, middle and lower hill forests of the Darjeeling district.*—(a) Upper Hill Forest (6,000' to 8,000' altitude).—The growth and condition of exotic species planted at Ramam and Samanden in the Singalila Range, Darjeeling Division, viz., *Thuja plicata*, *Pinus laricio*, *Cupressus cashmeriana*, *Pinus patula*, *Pinus excelsa*, *Cupressus torulosa*, *Pinus sylvestris*, *Pinus morinda* and *Larix leptolepis* were promising. The growth of *Cedrus deodara*, *Abies* spp., *Pseudotsuga drugheri* was not satisfactory.

Cupressus spp. planted in 1939 plantation at Batasi were doing very well.

Stump planting of *phalant* (*Q. lineata*), *arupate* (*Prunus nepalensis*), *kapasi* (*Acer campbellii*) and *kawla* (*Machilus* spp.) done during April 1948 in the plantations of 1945, 1946 and 1947 in the Senchal Range, showed promising results.

In experiments on coppice and artificial regeneration of mixed species in a locality subject to frost, *Quercus lamellosa*, *Quercus lineata*, *Betula alnoides* and *Eriobotrya petiolata* were doing well, whereas *Michelia excelsa* survived in an unhealthy condition.

(b) Middle Hill Forests (3,000' to 6,000' altitude).—*Quercus lamellosa*, *Quercus lineata*, *Quercus semiserrata*, *Michelia excelsa*, *Acer campbellii*, *Machilus* spp., and *Cedrela febrifuga* sown direct in broken terraces did very well.

(c) Lower Hill Forests (500' to 3,000' altitude).—*Tectona grandis*, *Artocarpus chaplasha*, *Lagerstromia flos-reginae*, *Ailanthus grandis*, *Morus laevigata* continued to be raised in plantations in the Tista Valley with good results. The epicormic branches of teak were still persistent and attack of leaf-defoliators was common.

(vii) **Reclamation and Afforestation.**—(a) *Dolapchen slip and Development area at an elevation of 4,000' to 5,000' in the Kalimpong Division.*—*Tung* (*Aleurites* spp.), *Cupressus cashmeriana*, *malaba* (*Macaranga pustulata*), *lapche kawla* (*Machilus gammieana*) and *muli bamboos* (*Melocanna bambusoides*) were doing well.

(b) *Afforestation of waste lands in the Nadia District (Central Division).*—Restocking was continued on a larger scale with sowings of fast growing firewood spp. in admixture with suitable timber species. Of the firewood species *minjiri* (*Cassia siamea*) and *babul* (*Acacia* spp.) gave satisfactory results while *jam* (*Eugenia jambolana*) and *siris* (*albizzia* spp.) exhibited indifferent results. Of the timber species teak (*Tectona grandis*) and *sissoo* (*Dalbergia sissoo*) did well, but *mahogany* (*Swietenia mahagoni*), *simal* (*Bombax malabaricum*) and *toon* (*Cedrela febrifuga*) did not do as well as expected.

(c) *Afforestation of waste lands in the Midnapore Division.*—At Arabari experimental plantation was continued on a larger scale this year. Of the firewood species that were tried, viz., *siris* (*Albizzia* spp.), *minjiri* (*Cassia siamea*), *akasmoni* (*Acacia moniliformis*), rain tree (*Enterolobium saman*), Madras thorn (*Pithecolobium dulce*), *rudhachura* (*Peltophorum ferrugineum*) and *babul* (*Acacia* spp.) the successful species were *siris* (*Albizzia* spp.), *minjiri* (*Cassia siamea*), Madras thorn (*Pithecolobium dulce*), and *akasmoni* (*Acacia moniliformis*). Among the timber species *gamar* (*Gmelina arborea*) thrived best while *piasal* (*Pterocarpus marsupium*), *jarul* (*Lagerstromia flos-reginae*) *pitalli* (*Trewia nudiflora*), teak (*Tectona grandis*), *sissoo* (*Dalbergia sissoo*), rosewood (*Dalbergia latifolia*), *simal* (*Bombax malabaricum*), *kanju* (*Holoptelea integrifolia*) and *arjun* (*Terminalia arjuna*) did fairly well. Of the miscellaneous species the growth of *Cashew nut* (*Anacardium occidentale*) was most remarkable; trials were also made with *mahua* (*Bassia latifolia*), *tamarind* (*Tamarindus indica*), *neem* (*Azadirachta indica*), *soapnut* (*sapindus emarginatus*), *bahera* (*Terminalia belerica*) and *kusum* (*Schleichera trijuga*). The plantation was protected by a cattle-proof trench. Inside the area contour trenches were dug to hold up rain water. *Sabai* and *napiar* grasses were grown successfully in addition to field crops such as maize, ground nut, *arhar*, jute and cotton. A miniature replica of the Arabari experimental plantations was started at Lalgarh where the soil being less eroded the growth of all the species, particularly of *Cassia siamea* and *Acacia moniliformis*, was exceptionally good.

(d) *Afforestation of semi-consolidated sand dunes at Digha on the sea-beach in the Midnapore Division.*—*Casuarina equisetifolia*, *Acacia moniliformis* and *Anacardium occidentale* continued to be planted with success on the almost pure sand hills.

(viii) **Thinning.**—Thinnings in plantations and high forest were carried out according to the programme prescribed in the current Working Plans.

Sample plots were thinned as necessary in accordance with the Silvicultural programme.

(ix) **Mixtures in plantations.**—Mixed plantations were raised in the various Divisions in accordance with the prescriptions of the current Working Plans.

(x) **Under Planting.**—Nil.

(xi) **Miscellaneous.**—(a) *Experimental cultivation of wattle for tan-bark.*—*Acacia decurrens*, var. *mollissima* was tried at Raman and Takdah in the Darjeeling Division, at Paiengaon and Kalimpong in the Kalimpong Division and at Mahaldaram in the Kurseong Division. The growth was satisfactory at Takdah, Paiengaon and Mahaldaram. The experiments are to be continued.

(b) *Preservation of Natural Flora.*—The existing Preservation plots were maintained and observations recorded.

(c) *Forest Botany.*—Specimens of plants of doubtful identity were sent to the Superintendent, Royal Botanic Garden, Sibpur, for identification.

(d) *Forest Entomology.*—Nil.

(e) *Forest publicity.*—Enlightenment of the general public on the utility of forests and their effect on climate, rainfall, flood and soil erosion was carried out. Free distribution of more than a lakh of seedlings from different forest nurseries was made to the public with a view to encouraging the villagers to grow more trees.

(f) *Publications.*—The "Nursery and Plantation Notes for Bengal" 4th Edition (1935), which was sent to the Press for reprinting was not received during the year under report.

(g) *Statistics.*—Records of all measurements of Silvicultural plots carried out during the year and requiring computation of volume figures and analysis were sent to the Central Silviculturist, Forest Research Institute, Dehra Dun, as usual. Copies of notes and observations on Experimental plots were also sent to him.

Statistical measurements and observations were made in 84 out of the existing 242 Scientific plots during the year under report.

(h) *Miscellaneous.*—There were 115 General Ledger files, 145 Specific Ledger files, 213 General Photo files and 321 Specific Photo files at the close of the year.

New books and publications numbering 62 were added to the Silviculturist's Library during the year.

2. Working Plans.

52. Sanction of the Government to the Fifth Working Plan for the Buxa Division was received during the year.

The Fifth Working Plan for the Jalpaiguri Division was also sanctioned during the year.

The draft of the Fifth Working Plan for the Kalimpong Division was revised and submitted to Government for sanction.

The draft of the First Working Plan for the 24-Parganas Division was completed during the year.

Field works for the revision of the Working Plan for the Darjeeling Division were taken up, but progress was not up to expectation due to shortage of staff.

To expedite the printing of the sanctioned plans it was agreed to accept them in the size Royal 8vo. in place of Super Royal 8vo. originally asked for. The Fifth Working Plan for the Jalpaiguri Division was printed accordingly and copies were issued to all concerned.

The draft Working Plan Manual was still under consideration. Routine checking of control forms was carried out as usual.

3. Utilisation.

53. The Utilisation Division had a very busy time during the year under report. Orders for timber of a total value of Rs. 46,29,374 were secured by this Division and a sum of Rs. 17,15,414 was realised during the year by the territorial divisions on timbers actually supplied. The Railway Board granted a letter of credit for Rs. 11,96,570 in favour of the Divisional Forest Officer, Utilisation Division, for paying up prices of sleepers to be supplied during the year.

The position regarding railway movement of timbers produced on orders from Central Government continued to be unsatisfactory as shown in the statement given below:—

	Opening balance at the beginning of 1948-49.	Orders received during 1948-49.	Quantity despatched during 1948-49.	Balance at the close of the year.
Sawn	.. 429 tons	1,126 tons 752 pieces.	263 tons	1,292 tons. 752 pieces.
Logs	.. 1,726 tons	5,401 tons	7 tons	7,120 tons.
Poles	.. ....	1,300 Nos.	....	1,300 Nos.

The Utilisation Division continued to function as a liaison organisation for the Forest Directorate of West Bengal in the matter of sleeper supplies to the Railways. The following is a statement showing the position at the end of the year under report:—

	Nos.
Opening balance at the beginning of 1948-49	.. .. 129,890
Orders received during 1948-49	.. .. 244,052
Quantities supplied in 1948-49	.. .. 101,707
Balance at the close of the year 1948-49	.. .. 272,235

The Forest Utilisation Officer also acts as a liaison officer for this province in matters of investigations and research work by the Forest Research Institute, Dehra Dun, on timbers and other forest products for testing their suitability for various industries.

The control of movement of timber by rail continued to be one of the important activities of the Division.

The organisation of a Forest Products Section in the existing Government Industrial Museum in Calcutta was under the consideration of the Directorate of Industries, West Bengal.

A Minor Forest Produce Branch of this Division was opened towards the end of the year.

A report on tanning tests on *khair* (*Acacia catechuoides*) wood, *sonalu* (*Cassia fistula*) and *gengwa* (*Eaccaecaria agallocha*) barks was received during the year from the Superintendent, Bengal Tanning Industries. The results obtained were not encouraging.

Barks of the following species were also sent to several tanning institutes for investigation as to their tanning properties but the results were not known by the end of the year:—

- (a) *Ceriops* spp. (*goran*).
- (b) *Heritiera minor* (*sundri*).
- (c) *Carapa obovata* (*dhundal*).
- (d) *Sonneratia apetala* (*keora*).
- (e) *Carapa molluccensis* (*passur*).
- (f) *Rhizophora conjugata* (*garjan*).

The management of the Central Library of the Forest Directorate, West Bengal, was transferred to the Utilisation Division from the Silvicultural Division towards the end of the year.

4. General.

54. The following is a list of officers with designations who held charge of the Research Divisions during 1948-49:—

Division.	Name of officers.	Period held charge.
Silvicultural Division ..	Sri A. C. Gupta, I.F.S. ..	1st April 1948 to 31st December 1948.
	Sri S. S. Mondal, W.B.S.F.S. ..	1st January 1949 to 31st March 1949.
Working Plans Division ..	Sri D. C. Chaudhuri, A.F.O. ..	1st April 1948 to 31st March 1949.
Utilisation Division ..	Sri M. M. Sarkar, A.F.O. ..	1st April 1948 to 9th November 1948.
	Sri K. N. Chaudhuri, W.B.S.F.S.	10th November 1948 to 31st March 1949.

CHAPTER VII—ADMINISTRATION.

55. **Director of Forests, West Bengal.**—The post was held by Sri S. Chaudhuri, I.F.S., throughout the year.

56. **Charges of Forest Circles.**—(i) *Northern Circle.*—Sri J. C. Nath, I.F.S., held charge during the year.

(ii) *Southern Circle.*—The following officers held charge of the circle for the period noted against each:—

- (1) Sri N. Pal, I.F.S., from 1st April 1948 to 31st December 1948.
- (2) Sri A. C. Gupta, I.F.S., from 1st January 1949 to end of the year.

Two temporary Forest Divisions, viz., Burdwan and Malda and a Sub-Division called the Birbhum Sub-Division at Suri were created under the Southern Circle during the year with effect from the 1st January 1949 under Government of West Bengal, Agriculture, Forests and Fisheries Department, Forests Branch, memorandum No. 46/6M-7/48, dated the 5th January 1949.

(iii) *Development Circle.*—This circle was created with effect from the 1st January 1949 under Government of West Bengal, Agriculture, Forests and Fisheries Department, Forests Branch, memorandum No. 46/6M-7/48, dated the 5th January, 1949. Sri N. Pal, I.F.S., took over charge of this circle and was in charge till the end of the year. The circle includes the

three Research Divisions, viz., Working Plans, Utilisation and Silvicultural Divisions, in addition to the West Bengal Forest School Division. Before the creation of the Development Circle these Divisions were under the control of the Director of Forests, West Bengal.

57. **Cadre of West Bengal Senior Forest Service.**—Sri P. K. Roy, Probationary Assistant Conservator of Forests, joined the West Bengal Senior Forest Service during the year on completion of his training at Dehra Dun, on the 15th April, 1948, in the Jalpaiguri Forest Division in the Northern Circle.

58. **Reorganisation of the Subordinate Forest Service.**—A proposal to this effect was under consideration of Government.

59. **Divisional Permanent Clerical Staff.**—Proposals for the increase of the cadre of permanent clerical posts were under consideration of Government.

The proposal for the creation of permanent posts of Accountant in Divisional Forest Offices was also under consideration of Government at the end of the year.

60. **West Bengal Forest School.**—Twenty-one students were deputed for training in the Foresters' Course, 1947-48, of which two were zamindary students. All the students appeared at the final examination and came out successful. The standard of the class was up to the mark.

Forty students were deputed for training in the Foresters' Course, 1948-49, including 6 from the adjoining States.

Four batches of Forest Guards, 20 in each batch, were trained during the year for getting proficiency in nursery and plantation work.

61. **Retirement, casualties, etc.**—(i) *Gazetted officers.*—The following officers retired from Government service during the year:—

- (1) Sri J. C. Bose, B.G.S., Personal Assistant to the Conservator of Forests, Northern Circle, West Bengal.
- (2) Sri A. N. Chakrabatti, Acting Assistant Forest Officer.
- (3) Sri A. K. Guha, Acting Assistant Forest Officer, died on the 19th January 1949.

(ii) *Subordinate and clerical establishments.*—The casualties during the year were as follows:—

Particulars.	Forest Rangers.	Deputy Rangers.	Foresters and Overseers.	Forest Guards.	Peons, Orderlies, Dak-wallas, Chankidars, etc.	Clerks.	Grass-cutters and mahuts.	Launch crew.	Total.
(1) Died .. ..	..	1	2	8	1	..	..	..	12
(2) Retired	1	1	..	8	1	..	..	..	11
(3) Resigned	1	..	14	16	4	..	1	1	37
(4) Dismissed .. ..	..	..	1	2	..	..	..	1	4
(5) Services dispensed with .. ..	..	..	12	10	26	..	8	10	61
Total	2	2	29	44	32	..	4	12	125
	(1)	(..)	(11)	(9)	(34)	(1)	(4)	(..)	(60)

62. The relations between Revenue and Forest officials were, as usual cordial.

CHAPTER VIII—GENERAL.

63. **Forest villages.**—The following permanent and temporary forest villages were maintained at the close of the year:—

Division.	Villages (numbers).				Houses (numbers).				Area in acres.			
	1948-49.		1947-48.		1948-49.		1947-48.		1948-49.		1947-48.	
	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.	Permanent.	Temporary.
Darjeeling	21	29	23	15	263	102	291	108	682	95	707	199
Kalimpong	8	10	8	10	159	245	157	212	250	245	173	249
Kurseong	23	4	22	4	384	11	377	20	628	17	577	54
Jalpaiguri	40	..	41	..	555	..	576	..	3,025	..	2,573	..
Buxa	37	..	37	..	707	..	782	..	4,600	..	4,411	..
Total	129	43	131	29	2,158	358	2,183	340	9,254	357	8,441	502

64. **Elephants.**—The elephant “Chandmati” of the Jalpaiguri Division died on the 12th February 1949. Hence the number of elephants at the close of the year stood at 10 against 11 of the previous year.

The elephant “Gajamati” attached to the Buxa Division gave birth to a male calf on 31st January 1949. Both the mother and the calf are keeping well.

65. **Steamer, motor launches and flats.**—The total number of launches at the close of the year stood at 5 as detailed below:—

- (i) M. L. “Banarani” (Tanac Tug), 220 h.p.
- (ii) M. L. “Banalata” (M.F.V.), 88 h.p.
- (iii) M. L. “Banabithi” (converted accommodation boat), 85 h.p.
- (iv) M. L. “Banabala”, 38 h.p.
- (v) M. B. “Banasri” (slug boat), 20 h.p.

66. **Wild birds and Animals Protection Act.**—One case of illicit shooting of a female deer was reported during the year in the Darjeeling Division.

67. **Death and injury caused by wild animals.**—One forest villager was reported to have been mauled by a bear in Rambhi Forest of the Darjeeling Division during the year.

In the 24-Parganas Division 5 persons were killed by tigers. Of these, 4 were permit-holders belonging to the Indian Union, while the 5th was a fisherman hailing from Pakistan.

A considerable number of domestic animals were killed by tigers and leopards in the Jalpaiguri Division.

68. **Wild animals killed.**—The following statement shows the number of birds, animals and fish killed in the forest areas during the year :—

All-India serial No.	Species.					Number killed during 1948-49.	Average of last 5 years ending 1947-48.
1a	Tiger	..	..	..	..	10	11.6
1b	Tigress	..	..	..	..	4	5.1
2	Leopard or panther	..	..	..	..	35	27.4
3	Wild cat	..	..	..	..	8	8.4
8	Wild dog	..	..	..	..	6	4.6
9	Marten	..	..	..	..	..	1.6
12	Himalayan bear	..	..	..	..	4	2.0
14	Sloth bear	..	..	..	..	4	2.8
15	Wild elephant	..	..	..	..	..	3.0
17	Gaur or bison	..	..	..	..	1	..
25	Tahr	..	..	..	..	..	0.2
27	Scrow or Himalayan goat antelope	..	..	..	..	5	4.4
28	Goral	..	..	..	..	12	5.0
33	Barking deer or kakar	..	..	..	..	152	160.2
37	Sambur	..	..	..	..	20	29.6
38	Cheetal or spotted deer or axis deer	..	..	..	..	..	1.4
39	Hog deer or para	..	..	..	..	21	32.6
42	Pangolin	..	..	..	..	..	..
43	Crocodile	..	..	..	..	..	..
44	Gharial	..	..	..	..	..	2.2
45	Python	..	..	..	..	..	3.0
46	Other species (mentioned below)	..	..	..	..	1,760 (a).	1,569.6
<hr/>							
(a)	Wild pig	..	..	..	..	228	
	Hare	..	..	..	..	5	
	Porcupine	..	..	..	..	1	
	Jungle fowl	..	..	..	..	681	
	Pea fowl	..	..	..	..	44	
	Imperial pigeon	..	..	..	..	39	
	Green pigeon	..	..	..	..	40	
	Pigeon	..	..	..	..	59	
	Kalij pheasant	..	..	..	..	82	
	Wood snipe	..	..	..	..	47	
	Partridge	..	..	..	..	6	
	Wild duck	..	..	..	..	24	
	Wood cock	..	..	..	..	1	
	Goonch	..	..	..	..	4	
	Fish cutley	..	..	..	..	171	
	Fish mahseer	..	..	..	..	157	
	Others	..	..	..	..	171	
						<hr/> 1,760 <hr/>	

A reward of Rs. 500 was paid during the year for killing three tigers in the 24-Parganas Division.

69. Shooting and Fishing Associations and Game Federation, West Bengal.—A notice was issued terminating the existing licenses with the Associations and the club in the Northern Circle on the 31st March 1949, but the order was kept in abeyance by Government.

70. General note.—The timber trade of the State did not appear to be flourishing due to booking restriction and customs barrier and acute shortage of railway wagons. In consequence a huge stock accumulated in the purchasers' depots in North Bengal. The sale of dry and selection coupes had to be postponed during the year in the Buxa Division. Some relief was felt by the purchasers in disposing of a portion of timber to the Assam Rail Link Project and some to the local tea gardens. Price of firewood went very high (nearly 400 per cent.) and the necessity of bringing the prices under control was very keenly felt. Departmental supply to the local tea gardens had to be started with the help of the departmental trucks, as a result of which price came down to normal.

Darjeeling continued to be full of seasonal visitors and displaced persons. Consequently, the demand for charcoal continued to be abnormally high throughout the year. Departmental charcoal operations were continued during the year and with the co-operation of the Kurseong Division the requirement of the town was met in full.

71. The writer of this report records here his appreciation of the services of officers and subordinates of all ranks for their ungrudging efforts needed by the times.

S. CHAUDHURI,

Conservator-General of Forests, West Bengal.

CALCUTTA,

The 14th December 1950.

FORM No. 7.

(Paragraphs 1—7.)

Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, etc., 1948-49.

Division.	Range.	Civil district or territory.	Name of forests.	Area on 1st April 1948.		Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1949.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS.											
(Under Forest Directorate.)											
Northern Circle.											
Darjeeling	..	Darjeeling ..	....	71,398	111	..	..	71,398	111	..	
Kalimpong	Kalimpong	Darjeeling ..	Dolapchen Ridge Reserve. Other forests ..	..	..	336	..	336	1	..	Notification No. 4017-For., dated the 22nd June 1948.
				134,722	210	..	..	134,722	210	..	
			Total ..	134,722	210	336	..	135,058	211	..	
Kurseong	..	Darjeeling ..	....	71,662	112	..	..	71,662	112	..	
Jalpaiguri	..	Jalpaiguri ..	....	122,560	192	..	..	122,560	192	..	
Buxa	..	Jalpaiguri ..	....	239,434	374	..	..	239,434	374	..	
			Total Northern Circle	639,776	999	336	..	640,112	1,000	..	

Southern Circle.	Basirhat and Namkhana.	24-Parganas	.....	1,042,815	1,630	..	..	1,042,815	1,630	..
24-Parganas ..			Total Southern Circle	1,042,815	1,630	..	..	1,042,815	1,630	..
			Total reserved forests under Forest Directorate, West Bengal.	1,632,591	2,629	336	..	1,632,927	2,630	..
(Under other Directorates and Departments.)										
Northern Circle.										
Darjeeling	Darjeeling ..	....	1,497	2	..	..	1,497	2	..
Kalimpong	Darjeeling ..	....	9,308	15	..	..	9,308	15	..
Kurseong	Darjeeling ..	....	280	..	..	..	280	..	..
Jalpaiguri	Jalpaiguri ..	....	604	1	..	..	604	1	..
Buxa	Jalpaiguri ..	....	613	1	..	..	613	1	..
			* Total reserved forests under other Directorates and Departments in the Northern Circle and in West Bengal.	12,371	19	..	..	12,371	19	..
			Total reserved forests in West Bengal.	1,694,962	2,645	336	..	1,695,298	2,649	..

In charge of Civil and Works and Buildings Directorates, Sanitation and Municipal Authorities.

In charge of Civil, Cinchona, Works and Buildings and Public Health Directorates.

In charge of Cinchona, Civil, Education, Works and Buildings Directorates, Kurseong Municipality and Darjeeling Himalayan Railway.

In charge of Assam Railway and Works and Buildings Directorate.

In charge of Assam Railway District Board, Postal Department, Assam Works and Buildings Directorate.

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1949.		Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1949.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
PROTECTED FORESTS. (Under Forest Directorate.)											
Northern Circle.											
Kalimpong	..	Darjeeling ..	Kalimpong Development area.	173	..	..	..	173	..	..
			Total protected forest under Forest Directorate in the Northern Circle and in West Bengal.	173	..	..	..	173	..	..
(Under other Directorates and Departments.)											
Northern Circle.											
Darjeeling	..	Darjeeling ..	Jalapahar Cantonment. Leibong Cantonment	294 76	1 }	..	..	{ 294 76	} 1	..	In charge of Military Department.
			Total protected forests under other Directorates and Departments in the Northern Circle and in West Bengal.	370	1	..	..	370	1	..	
			Total protected forests in the Northern Circle and in West Bengal.	543	1	..	..	543	1	..	

UNCLASSIFIED STATE FORESTS AND LANDS.

Southern Circle.

Midnapore ..
Midnapore ..
Midnapore ..

Contal ..
Arabari ..
Arabari ..

Midnapore ..
Midnapore ..
Midnapore ..

Alampur Tidal
Forests.
Bombing Range Area
Leper Colony ..
Total unclassified State
forests and lands
in the Southern
Circle and in West
Bengal.

529
952
740
2,221

1
1
1
3

..
..
..
..

..
..
..
..

529
952
740
2,221

1
1
1
3

..
..
..
..

Khas forests over
which the Forest
Directorate has the
right to levy fees for
the export of forest
products therefrom.

Jalpaiguri ..

..

Jalpaiguri ..

Maynaguri ..
Falakata ..
Total Jalpaiguri
Division.

(a) 181
648
829

..
1
1

..
..
..

..
..
..

181
648
829

..
1
1

..
..
..

Buxa ..

..

Jalpaiguri ..

Alipur-Duar ..
Bholka ..
Total Buxa Division
forests in the
Northern Circle
and in West
Bengal.

1,218
139
1,357
2,186

2
..
2
3

..
..
..
..

..
..
..
..

1,218
139
1,357
2,186

2
..
2
3

..
..
..
..

Total reserved fo-
rests, protected
forests and un-
classified forests
and lands and
Khas forests con-
cerning the Forest
Directorate in
West Bengal.

1,999,912
2,655

2,655

336

..

1,700,248
2,656

2,656

..

Under Khas Mahal
Department.
Ditoe.

(a) Vide memoran-
dum No. 1414R.,
dated the 13th June
1947, from the
Commissioner, Raj-
shahi Division, to
the Conservator of
Forests, Northern
Circle.

Division.	Range.	Civil district or territory.	Name of forests.	Area on 1st April 1948.		Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1949.		Number and date of notification of addition or transfer, etc.	Remarks.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
LEASED LANDS.											
Southern Circle.											
24-Parganas ..											
	Basirhat and Nankhana.	24-Parganas	.....	772,069	1,207	..	..	772,069	1,207	..	
			Total leased lands in the Southern Circle in West Bengal.	772,069	1,207	..	..	772,069	1,207	..	
			Total reserved forests, protected forests, unclassified State forests and lands, khas forests concerning the Forest Directorate and leased land in West Bengal.	2,471,981	3,862	336	..	2,472,317	3,863	..	

FORM No. 3.

(Paragraphs 8 and 9.)

Progress made in Forest Settlements during the year 1948-49.

Forest division.	Civil district or territory.	Name of forest.	Area in square miles.			Cost during year.		Entire cost per square mile of area finally settled.	Government notification of settlement.	
			Finally settled during year.	In hand at commencement of year but not yet finally settled.	Taken in hand during year.	In forest accounts.	In other accounts.		Number.	Date.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.										
Kalimpong	Darjeeling	Dolapchen Ridge.	0.53	(a) 0.53	..	44,965	..	..	4017 For. ..	22-6-1948
		Total Northern Circle.	0.53	0.53	..	44,965	..	..	..	..
SOUTHERN CIRCLE.										
Midnapore	Midnapore	Arabari (Bombling Range).	..	1.49	..	..	..	..	..	..
		Arabari (Leper Colony).	..	1.16	..	..	..	..	..	..
		Total Southern Circle.	..	2.65	..	..	..	..	..	..
		Grand Total, West Bengal.	0.53	3.18	..	..	..	..	..	..

(a) The area of 0.54 square mile shown in the previous year's form was finally altered to 0.53 square mile after survey.

FORM No. 9.

(Paragraphs 10 and 11.)

Record of Demarcation and Maintenance of Boundaries, 1948-49.

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at close of the year.	Length of boundaries still to be demarcated at close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Bs.	Bs.	
RESERVED FORESTS.										
Northern Circle.										
Darjeeling ..	..	105	53	153	..	74	232	..	954	
Kalimpong ..	6	186	26(a)	218	..	73	291	8,090	3,460	
Kurseong ..	..	115	7	122	..	129	251	..	1,519	
Jalpaiguri ..	..	168	12	180	3	150	333	..	1,785	
Buxa ..	..	178	60	238	..	97	335	..	2,122	
Total Northern Circle ..	6	752	158	916	3	523	1,442	8,090	9,940	
Southern Circle.										
24-Parganas ..	..	6	..	6	..	298	304	..	100	
Total Southern Circle ..	..	6	..	6	..	298	304	..	100	
Total West Bengal	6	758	158	922	3	821	1,746	8,090	9,940	
UNSETTLED FORESTS.										
Southern Circle.										
Midnapore ..	6	3	..	9	..	..	9	1,160	..	
Total ..	6	3	..	9	..	..	9	1,160	..	
Grand Total, West Bengal	12	761	158	931	3	821	1,755	9,250	9,940	

(a) Seven miles maintained by the Civil Department and 19 miles by the Cinchona Department.

FORM No. 10.

(Paragraph 12.)

Statement showing forest areas surveyed and under survey by the Survey of India Department during the year 1948-49.

Division.	Topographical surveys.										Ordinary surveys not paid for by Forest Department.										Boundary surveys.		Total area as per Form No. 7.
	Special surveys paid for by Forest Department.										Of the year.										Of the year.		
	Previous.		Of the year.		Cost.		Previous.				Of the year.		Of the year.		Pre-vious.		Total areas survey-ed.						
	4"=1M.	2"=1M.	4"=1M.	2"=1M.	Incur-red during the year.	Total to the end of year.	2"=1M.	4"=1M.	Sq. m.	Sq. m.	Rs.	Sq. m.	4"=1M.	2"=1M.	Sq. m.	Sq. m.		Sp. m.					
1	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	Rs.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.				
RESERVED FORESTS.																							
Northern Circle.																							
Darjeeling	111	..	..	..	..	12,315	..	..	..	..	..	..	..	..	..	..	..	111	2
Kalimpong	221	..	..	..	..	19,385	..	..	..	..	..	..	..	..	..	..	..	221	5
Kurseong	112	..	..	..	..	7,702	..	..	..	..	..	..	..	..	..	..	..	112	..
Jalpaiguri	179	..	..	..	..	29,819	..	..	..	..	..	..	..	..	..	..	..	179	14
Buxa	311	..	..	..	..	36,844	..	..	..	..	..	42	..	..	..	..	..	353	22
Total Northern Circle	934	..	..	..	..	97,065	..	..	..	..	..	42	..	..	..	..	..	976	43
Southern Circle.																							
24-Parganas	..	1,585	..	..	..	81,062	..	..	..	..	..	..	..	..	..	..	..	1,585	45
Total Southern Circle	..	1,585	..	..	..	81,062	..	..	..	..	..	..	..	..	..	..	..	1,585	45
Total Reserved Forests in West Bengal	934	1,585	..	..	..	1,78,127	..	..	..	..	..	42	..	..	..	..	..	2,561	88
PROTECTED FORESTS.																							
Northern Circle.																							
Darjeeling	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Kalimpong	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Protected Forests in the Northern Circle and in West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Grand Total of Reserved and Protected Forests in West Bengal.	934	1,585	..	..	..	1,78,127	..	..	..	..	..	42	..	..	..	..	..	2,561	89

FORM No. 11.
(Paragraphs 13—15).
Progress made in Working Plans during the year 1948-49.

Division.	Area under sanctioned working plans.						Area not under working plans.			Total Forest area in Form No. 7 (total of columns 6, 7, 8 and 9).	Revisions.			Expenditure on working plans during the year.	Remarks.	
	At commencement of year.	Added during year.	Deducted during year.	At close of year.		Plans under preparation.	Plans under working plans.		Sq. m.		Sq. m.	Sq. m.	In progress at end of year.			Revised plans sanctioned during year.
				Actual area.	Percentage of total forest area (as shown in column 10).		Sq. m.	Sq. m.									Sq. m.	Acquired at present.	Not required at present.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
RESERVED FORESTS.																
Northern Circle.																
Darjeeling	111	..	..	111	98.2	..	..	(a) 2	113	111	111	..	3,540		(a) In charge of the Civil and Works and Buildings Directorates, Scots Missions and Municipal authorities.
Kalimpong	210	1	..	211	93.4	(b)	..	(c) 15	226	211	211	..	581		(b) The area for which plan is under preparation, is only 173 acres. This being less than 1 square mile is not shown in this column.	
Kurseong	112	..	..	112	100	..	..	..	112	..	..	..	300		(c) In charge of Civil, Engineering and Buildings and Public Health Directorates.
Jalpaiguri	192	..	..	192	99.5	..	..	(d) 1	193	..	..	192	205		(d) In charge of Assam Railway and Works and Buildings Directorate.
Buxa	367	..	..	367	97.9	7	..	(e) 1	375	..	..	374	464		(e) In charge of Assam Railway District Board, Postal Department and Works and Buildings Directorate.
Total Northern Circle	992	1	..	993	97.4	7	..	19	1,019	322	322	566	5,090			

FORM No. 12.

(Paragraphs 16—19.)

Statement showing Communications and Buildings during the year 1948-49.

New works undertaken during the year.																					
Division.	Buildings.				Roads and paths.						Other works.										
	Expenditure on—				Cart roads.		Bridle paths.		Others.		Total expenditure incurred.	Total expenditure on new works.									
	Headquarters houses.	Host houses.	Houses for subordinate establishment.	Others.	Total expenditure incurred.					Total length of paths or roads.											
						2(a)	2(b)	2(c)	2(d)		3	4(a)	4(b)	4(c)	4(d)	4(e)	4(f)	5	6	7	8
1	Rs.	Rs.	Rs.	Rs.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			
NORTHERN CIRCLE.																					
Darjeeling	750	999	12,660	14,409	..	..	..	..	..	..	..	..	1,000	15,409	..	..	..
Kalimpong	18,375	..	18,375	19.25	27,500	..	..	..25	2,750	10.50	30,250	8,160	56,785	..	..	..
Kurseong	3,650	3,500	20,309	27,450	1.50	4,000	..	..	..	..	1.50	4,000	1,900	33,359	..	..	..
Jalpaiguri	1,000	425	11,696	13,121	..	..	..	..	..	..	..	..	1,369	14,490	..	..	..
Buxa	1,079	10,844	55,378	67,301	..	..	..	..	..	..	..	..	3,069	70,370	..	..	..
Total Northern Circle	..	6,479	34,143	1,00,043	1,40,665	20.75	31,500	..	..	..25	2,750	21	34,250	15,498	1,90,413	..	..	..

SOUTHERN CIRCLE.

[illegible]

DEVELOPMENT CIRCLE.

West Bengal Forest School	..	1,064	..	..	..	1,064	..	..	..	-13	800	.13	800	..	1,864
Silvicultural ..	..	..	..	3,125	..	3,125	..	..	..	..	..	..	..	..	3,125
Total Development Circle	..	1,064	..	3,125	..	4,189	..	..	..	-13	800	.13	800	..	4,989
Total West Bengal	..	26,252	48,422	1,06,733	1,47,189	3,22,626	20.75	31,500	..	.47	3,850	21.22	35,350	43,806	4,07,582

Repairs executed during the year.

Division.	Buildings.										Roads and paths.								Other works.	
	Expenditure on—					Total expenditure incurred.					Cart roads.		Bridle paths.		Others.		Total length of paths or roads.		Total expenditure incurred.	
	Headquarters houses.	Rest houses.	Houses for subordinate establishments.	Others.	Total expenditure incurred.	11(e)	11(b)	Length.	11(c)	11(d)	Length.	11(f)	Cost.	Others.		12	13	14	15	
														Rs.	Rs.					Miles.	Rs.	Miles.	Rs.
1	Rs.	Rs.	Rs.	Rs.	Rs.	Miles.	Rs.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.	Rs.	
NORTHERN CIRCLE.																				
Darjeeling ..	1,261	1,259	2,393	959	5,872	27	30,288	239	5,141	22	240	288	35,069	1,536	43,077	..	..	..	..
Kalimpong ..	775	4,525	8,701	1,722	15,723	65-9	6,732	101-3	2,869	34-24	1,816	201-44	11,417	4,726	31,806	..	..	..	..
Kurseong ..	407	2,180	5,460	206	8,253	81	10,914	156	1,586	..	..	237	12,500	3,700	24,453	..	..	..	..
Jalpaiguri ..	1,708	2,664	8,938	2,317	15,627	187	37,815	6	57	22	5,122	215	42,994	2,131	60,752	..	..	..	..
Buxa ..	905	5,768	7,689	1,315	15,677	253	33,417	54	1,513	60	1,860	367	36,790	19,061	71,523	..	..	..	..
Total Northern Circle	5,056	16,396	33,181	6,519	61,152	613-9	1,19,166	556-3	11,166	138-24	9,038	1,308-44	1,39,370	31,154	2,31,676	..	..	..	..
SOUTHERN CIRCLE.																				
24-Parganas ..	..	..	1,620	..	1,620	..	..	..	..	..	..	..	..	..	1,910	3,530	..	..	..
Midnapore ..	935	165	252	789	2,141	..	..	..	..	..	100	1-19	100	1-19	100	3,594	..	..	..
Central ..	3,649	..	..	..	3,649	..	..	..	..	..	..	..	..	..	3,001	6,650	..	..	..
Bankura ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	300	300	..	..	..
Total Southern Circle	4,584	165	1,872	789	7,410	..	..	..	..	..	100	1-19	100	1-19	100	6,564	14,074	..	..

DEVELOPMENT CIRCLE.

DEVELOPMENT CIRCLE.																	
West Bengal Forest School	..	462	364	3,165	97	4,088	..	..	..	..	..	..	..	..	..	1,803	5,891
Silvicultural	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Development Circle	..	462	364	3,165	97	4,088	..	..	..	..	..	..	..	..	..	1,803	5,891
Total West Bengal	..	10,102	16,925	38,218	7,405	72,650	613.9	1,19,166	556.3	11,166	139.43	9,138	1,309.63	1,39,470	39,521	2,51,641	

N.B.— A means cases taken into Court.
B means cases disposed of under section 68 of the Indian Forest Act, 1927.
C means undictated cases.
(a) Five "A" cases of 1947-48 were transferred to "B" during the year 1948-49.

Forest Division.	Disposed of during the year.																			Cases pending at close of year.		
	Total cases.				Convictions.				Acquittals.				Total.									
					Cases.		Persons.		Cases.		Persons.		Cases.			Persons.						
	A	B	C	All	A	B	A	B	A	B	A	B	A	B	A	B	A	B	All.			
	A	B	C	All	A	B	A	B	A	B	A	B	A	B	A	B	A	B	All.			
1	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
NORTHERN CIRCLE.																						
Darjeeling	..	84	511	3	598	16	505	19	613	..	2	..	2	16	507	523	19	615	634	68	4	72
Kalimpong	..	5	256	5	266	5	239	6	320	..	2	..	2	5	241	246	6	322	328	..	15	15
Kurseong	..	3	379	6	388	2	357	5	534	1	..	1	..	3	357	360	6	584	590	..	22	22
Jalpaiguri	..	7	436	7	450	1	427	7	864	5	5	8	5	6	432	438	15	869	884	1	4	5
Buxa	..	1	348	1	350	..	336	..	619	..	..	..	..	..	336	336	..	619	619	1	12	13
Total Northern Circle	..	100	1,980	22	2,052	24	1,864	37	3,000	6	9	9	9	30	1,873	1,903	46	3,009	3,055	70	57	127
SOUTHERN CIRCLE.																						
24-Parganas	..	10	107	12	129	..	99	..	384	..	..	..	..	..	99	99	..	384	384	10	8	18
Bankura	..	7	..	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	7
Total Southern Circle	..	17	107	12	136	..	99	..	384	..	..	..	..	..	99	99	..	384	384	17	8	25
Total West Bengal	..	117	2,037	34	2,188	24	1,963	37	3,384	6	9	9	9	30	1,972	2,002	46	3,393	3,439	87	65	152

FORM No. 14.
(Paragraph 25.)

Area of Forest Tracts protected from fire during 1948-49.

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1947-48.	Area actually protected in 1947-48.	Area attempted to be protected in 1948-49.	Failures.	Area actually protected in 1948-49.	Cost.
1	2	3	4	5	6	7	8	9
			Acres.	Acres.	Acres.	Acres.	Acres.	Rs.
NORTHERN CIRCLE.	Darjeeling	1891-92	14,766	14,748	14,748	2	14,746	..
		1891-92	27,833	27,508	27,508	..	27,508	..
		1879-80	}	}	}	}	}	2,647
		1879-80						
		1885-86						
		1881-82						
		1918-19						
		Total	54,515	54,217	54,217	44	54,178	2,647
	Kalimpong	1879-80	}	}	}	}	}	..
		1885-86						
		1903-04						
		1906-07						
	Chel	1879-80	32,825	32,825	32,815	..	32,825	..
	Neora	1879-80	16,976	16,976	16,976	..	16,976	..
	Jaldhaka	1879-80	26,205	26,187	26,205	..	26,205	1,052
	Pankasari	1924-25	40,393	40,379	40,393	..	40,393	..
	Reclamation	1942-43	173	173	173	..	173	..
		1944-45	188	188	188	3	185	..
		1948-49	..	..	396	..	396	..
		Total	134,895	133,576	135,231	3	135,228	1,052

Kurseong	..	..	Sukna	..	..	1876-85	..	9,604	9,445	9,604	..	20	9,604	7,368	1,250
			Bagdogra	..	..	1876-85	..	7,368	6,905	7,368	..	20	7,368	7,368	250
			Pankhabari	..	..	1876-85	..	9,352	9,352	9,352	..		9,352	9,352	600
			Bevoke	..	..	1876-85	..	10,752	10,712	10,752	..		10,752	10,752	500
			Kurseong	..	..	1919-20	..	1,687	1,686	1,687	..		1,687	1,687	300
						Total	..	38,783	38,100	38,783	..	20	38,783	38,783	2,880
Jalpaiguri	..	..	Apalchand	..	..	1878-79	..	15,124	15,069	15,124	..		15,124	15,124	..
						1931-32	..								
						1878-79	..	60,597	60,562	60,597	..		60,597	60,597	..
						1908-09	..								
						1931-32	..								
			Moraghat	..	..	1872-73	..	17,719	17,719	17,719	..		17,719	17,719	2,500
						1878-79	..								
						1881-82	..								
						1904-05	..								
						1907-08	..								
						1931-32	..								
			Madarhat	..	..	1904-05	..	17,267	17,267	17,267	..		17,267	17,267	..
						1931-32	..								
						Total	..	119,707	119,617	119,707	..		119,707	119,707	2,500

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1947-48.		Area actually protected in 1947-48.		Area attempted to be protected in 1948-49.		Area actually protected in 1948-49.		Coat.
			3	4	5	6	7	8	9		
1	2	3	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
Buxa	Rajabhatkhawa	1876-77	..	2,045	2,045	2,045	110	1,935	300		
		1905-06	..	3,435	3,409	3,435	..	3,435	100		
		1924-25	..	..	..	..	..	..	..
		1876-77	..	..	..	..	..	..	..
	Damanpur	1905-06	..	1,042	1,042	1,042	..	1,042	400		
		1920-21	..	..	..	..	..	..	..
		1922-23	..	..	..	..	..	..	..
		1941-42	..	..	..	..	..	..	..
	Chilapata	1879-80	..	..	..	..	..	..	..
		1883-84	..	..	..	..	..	..	..
		1888-89	..	..	..	..	..	..	..
		1890-91	..	6,680	6,491	6,680	..	6,680	137		
Nilpara	1895-06	..	..	..	..	..	..	..
	1922-23	..	..	..	..	..	..	..
	1940-41	..	..	..	..	..	..	..
	1879-80	..	..	..	..	..	..	..
Bydak	1883-84	..	11,903	11,903	11,903	10	11,893	250			
	1923-24	..	..	..	..	..	..	..
	1936-37	..	..	..	..	..	..	..
	1935-39	..	..	..	..	..	..	..
Bydak	1939-40	..	..	..	..	..	..	..
	1878-79	..	..	..	..	..	..	..
	1895-06	..	570	482	570	5	565	400			
	1922-23	..	..	..	..	..	..	..
1923-24	..	..	..	..	..	..	..	..

Bholka	..	..	1878-79	..	1,432	1,332	1,432	19	1,413	250
			1882-83	..	1,432	1,332	1,432	19	1,413	250
			1895-96	..	1,432	1,332	1,432	19	1,413	250
			1899-1900	..	1,432	1,332	1,432	19	1,413	250
			Total	..	27,107	26,674	27,107	144	26,983	1,837
			Grand Total, Northam Circle, and West Bengal		375,007	372,184	375,045	211	374,834	10,916

FORM No. 15.

(Paragraph 25.)

Causes of forest fires, 1948-49.

Division or Circle.	(A)				(B)				(C) Fires beginning inside the reserve or fire-traced area.							
	Fires caused by accident or through carelessness in burning fire-lines.		Fires entering the forests by crossing exterior fire-traces.		Fires entering the forests by crossing exterior fire-traces.		Fires caused by accident or through carelessness in burning fire-lines.		By workmen employed in the forests by purchasers of forest-produce and by $\frac{1}{2}$ cutters.		By villagers, travelling through the forests.		By railway engines.		By lightning or by fire balloons.	
	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13				
NORTHERN CIRCLE.																
Darjeeling	..	..	..	..	..	..	..	44	..	..	..	..	..	..	..	..
Kalimpong	..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..
Kurseong	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jalpaiguri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Buxa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Northern Circle and West Bengal.	4	119	..	..	1	5	5	47	..	..	..	..	..	..	..	..

Division or Circle.	(C) Fires beginning inside the reserve or fire-traced area.												Total (A), (B) and (C).	
	By intentional firing.						Total.		Causes unknown.					
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.									
	No of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.
1	14	15	16	17	18	19	20	21	22	23	24	25		
NORTHERN CIRCLE.														
Darjeeling	4	44	..	..	4	44		
Kalimpong	1	3	..	..	1	3		
Kurseong	1	20	1	20		
Jalpaiguri		
Buxa	1	5	2	20	7	144		
Total, Northern Circle and West Bengal.	6	52	3	40	13	211		

FORM No. 16.

(Paragraphs 26—28.)

Statement of areas closed and open to grazing during 1948-49.

Division.	Area closed to grazing of all animals throughout the year.	Area open to grazing throughout the year.		Balance, that is, area open to grazing for a part of the year (and therefore closed for the remainder).		Total.
		Of all animals.	Of non-browsers only.	Of all animals.	Of non-browsers only.	
1	2	3	4	5	6	7
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
NORTHERN CIRCLE.						
<i>Reserved Forests.</i>						
Darjeeling ..	49	..	64	..	..	113
Kalimpong ..	163	..	63	..	..	226
Kurseong ..	82	..	30	..	..	112
Jalpaiguri ..	190	..	..	..	3	193
Buxa ..	368	..	7	..	..	375
Total ..	852	..	164	..	3	1,019
<i>Protected Forests.</i>						
Darjeeling ..	1	..	..	..	..	1
Total ..	1	..	..	..	..	1
<i>Khas Forests over which the Forest Directorate has the right to levy fees for the export of forest produce.</i>						
Jalpaiguri ..	..	1	..	..	..	1
Buxa ..	1	1	..	..	..	2
Total ..	1	2	..	..	..	3
Total Northern Circle	854	2	164	..	3	1,023

Division.	Area closed to grazing of all animals throughout the year.	Area open to grazing throughout the year.		Balance, that is, area open to grazing for a part of the year (and therefore closed for the remainder).		Total.
		Of all animals.	Of non-browsers only.	Of all animals.	Of non-browsers only.	
1	2	3	4	5	6	7
SOUTHERN CIRCLE.						
<i>Reserved Forests.</i>						
24-Pargannas ..	1,630	..	..	..	..	1,630
Total ..	1,630	..	..	..	..	1,630
<i>Unclassed State Forests.</i>						
Midnapore ..	3	..	..	..	..	3
Total ..	3	..	..	..	..	3
Total Southern Circle	1,633	..	..	..	..	1,633
Grand Total, West Bengal ..	2,487	2	164	..	3	2,656

FORM No. 17.

(Paragraphs 26—28.)

Return of grazing in the State Forests of West Bengal during 1948-49.

Division.	At full rates.							At privileged rates.					Fees received.	
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Fees received.	Ra.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Actual.	Value at full rates.
	2	3	4	5	6	7		8	9	10	11	12	13	14
1														
NORTHERN CIRCLE.														
Darjeeling ..	11	786	77	..	32	9,348		..	..	..	..	..	..	..
Kalimpong ..	1	129	..	..	1	1,583		11	754	..	..	..	4,612	13,836
Kurseong ..	..	9	..	..	..	155		..	..	..	..	..	..	..
Jalpaiguri ..	52	..	..	..	4	1,013		..	..	..	..	..	..	..
Buxa ..	..	..	..	..	..	..		..	..	..	..	..	..	..
Total, Northern Circle and West Bengal.	64	924	77	..	37	12,099		11	754	..	..	..	4,612	13,836

Grazing on payment—Number of animals.

Grazing free—Number of animals.

Division.	By right under settlement.						During pleasure of Government or otherwise than under settlement.						Total value of fees at full rates.	Grand total of value at full rates.
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels.	Other animals.	Value of fees at full rates.		
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.							Rs.	Rs.
NORTHERN CIRCLE.														
Darjeeling ..	..	..	..	..	..	..	..	..	..	..	..	..	..	9,348
Kalimpong ..	..	..	..	..	..	..	..	354	..	..	..	3,540	3,540	18,959
Kurseong ..	..	..	..	..	..	..	..	..	..	..	..	..	..	155
Jalpaiguri ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,013
Buxa ..	..	..	..	..	..	..	10	8	..	..	..	2,960	2,960	2,960
Total, Northern Circle and West Bengal.	..	..	..	..	..	..	10	362	..	..	..	6,500	6,500	32,435

FORM No. 18.

(Paragraphs 31—35.)

Progress in concentrated regeneration and afforestation during 1948-49 in
West Bengal.

Division.	Area under concentrated natural regeneration during the year.	Area regenerated mainly by coppice during the year.	Area artificially regenerated during the year.		Total cost of regeneration operations during the year.
			In existing tree forest.	Afforestation.	
1	2	3	4	5	6
	Acos.	Acos.	Acos.	Acos.	Rs. a. p.
NORTHERN CIRCLE.					
Darjeeling ..	..	..	311	..	19,261 0 0
Kalimpong ..	..	..	377	..	17,690 0 0
Kurseong ..	36	..	337	..	30,669 0 0
Jalpaiguri ..	..	..	528	..	24,065 0 0
Buxa ..	172	..	623	..	37,042 0 0
Total, Northern Circle and West Bengal	208	..	2,176	..	1,28,727 0 0

Column 2—Includes all parts of Periodic Block I in process of natural regeneration.

Column 3—Shows coppice coupes felled during the year.

Column 4—Includes only those plantations first formed during the year.

Column 5—Includes lands artificially converted to forest during the year.

Column 6—Includes all costs of obtaining and tending natural or artificial young crops,
• i.e., the total of budget detailed head AIVb.

FORM No. 19.

(Paragraph 36.)

Outturn (in thousands of cubic feet solid) of timber and fuel during the year 1948-49 and agency of exploitation.

Division.	Timber in the rough. (Logs.)					Timber in the rough. (Poles.)				
	Govern- ment. 2	Pur- chasers. 3	Free grantees. 4	Right- holders. 5	Total. 6	Govern- ment. 7	Pur- chasers. 8	Free grantees. 9	Right- holders. 10	Total. 11
NORTHERN CIRCLE.										
<i>Reserved Forests.</i>										
Darjeeling ..	1	190	..	..	191	7	3	..	..	10
Kalimpong ..	52	536	..	..	588	3	1	1	..	5
Kurseong ..	247	48	..	..	295	18	7	..	..	25
Jalpaiguri ..	119	503	..	..	622	11	23	..	..	34
Buxa ..	355	544	1	..	900	17	24	1	..	42
Total Northern Circle ..	774	1,821	1	..	2,596	56	58	2	..	116
SOUTHERN CIRCLE.										
<i>Reserved Forests.</i>										
24-Parganas ..	1	16	..	..	17	3	2,493	..	..	2,496
<i>Leased lands.</i>										
24-Parganas ..	..	..	..	..	..	..	2	..	..	2
Total Southern Circle ..	1	16	..	..	17	3	2,495	..	..	2,498
Grand Total, West Bengal ..	775	1,837	1	..	2,613	59	2,553	2	..	2,614

Division.	Sawn or square timber.						Miscellaneous.				
	Govern- ment. 12	Pur- chasers. 13	Free grantees. 14	Right- holders. 15	Total. 16		Govern- ment. 17	Pur- chasers. 18	Free grantees. 19	Right- holders. 20	Total. 21
NORTHERN CIRCLE.											
<i>Reserved Forests.</i>											
Darjeeling ..	28	..	..	..	28		..	..	..	..	..
Kalimpong ..	..	..	..	..	..		..	..	..	..	..
Kurseong ..	30	2	..	..	32		..	..	..	..	..
Jalpaiguri ..	..	..	..	..	..		..	..	..	..	..
Buxa ..	19	..	..	..	19		..	..	..	..	..
Total Northern Circle ..	77	2	..	..	79		..	..	..	..	..
SOUTHERN CIRCLE.											
<i>Reserved Forests.</i>											
24-Parganas ..	..	..	..	..	..		..	..	..	..	..
<i>Leased lands.</i>											
24-Parganas ..	..	..	..	..	..		..	..	..	..	..
Total Southern Circle ..	..	..	..	..	..		..	..	..	..	..
Grand Total, West Bengal	77	2	..	..	79		..	..	..	..	..

Division.	Total timber.						F.a.a.					Total outturn.
	Govern- ment. 22	Pur- chasers. 23	Free grantees. 24	Right- holders. 25	Total. 26		Govern- ment. 27	Pur- chasers. 28	Free grantees. 29	Right- holders. 30	Total. 31	
NORTHERN CIRCLE.												
<i>Reserved Forests.</i>												
Darjeeling ..	36	193	..	..	229		81	1,540	64	..	1,685	1,914
Kalimpong ..	55	537	1	..	593		54	3,188	169	..	3,411	4,004
Kurseong ..	295	57	..	..	352		596	935	47	..	1,578	1,930
Jalpaiguri ..	130	526	..	..	656		22	4,277	19	..	4,318	4,974
Buxa ..	391	568	2	..	961		766	4,064	137	..	4,967	5,928
Total Northern Circle ..	907	1,881	3	..	2,791		9	14,004	436	..	15,959	18,750
SOUTHERN CIRCLE.												
<i>Reserved forests.</i>												
24-Parganas ..	4	2,509	..	..	2,513		..	1,398	14	..	1,412	3,925
<i>Leased lands.</i>												
24-Parganas ..	..	2	..	..	2		..	..	..	..	..	2
Total Southern Circle ..	4	2,511	..	..	2,515		..	1,398	14	..	1,412	3,927
Grand Total, West Bengal ..	911	4,392	3	..	5,306		1,519	15,402	450	..	17,371	23,977

FORM No. 20.

(Paragraph 36.)

Outturn of minor forest produce during the year 1948-49.

Description of produce.	Produce removed or utilised.										Total.		
	By Government agency.		By purchasers.		By free grantees.		By right-holders.		Quantity.	Value.			
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.					
	1	2	3	4	5	6	7	8	9	10	11	12	
		Rs.			Rs.			Rs.		Rs.			
NORTHERN CIRCLE.													
<i>Reserved Forests.</i>													
Bamboos .. Nos. ..	4,838	400	832,422	15,602	16,850	380	..	..	854,110	16,391	..	..
Grazing .. Value ..	..	..	..	10,711	..	6,500	..	..	..	23,211	..	..
Fodder .. Value ..	..	..	..	11,205	..	1,899	..	..	..	13,104	..	..
Cane .. Loads ..	1,342	1,001	12,771	13,624	43	22	..	..	20,156	14,647	..	..
Cane .. Mds. ..	30	180	2,134	2,482	..	..	..	..	2,164	2,662	..	..
Stone .. C.ft. ..	132,039	2,041	1,232,461	25,556	26,250	527	..	..	1,390,770	23,724	..	..
Thatch grass .. Value ..	..	214	..	12,557	..	201	..	..	..	12,972	..	..
Long pepper .. Value ..	..	..	..	1,077	..	..	..	..	..	1,077	..	..
Honey combs .. Nos. ..	..	..	39	39	..	..	..	..	39	39	..	..
Ivory .. Nos. ..	5	1,637	..	..	..	..	..	..	5	1,637	..	..
Rhinoceros horns .. Value ..	..	1,950	..	..	..	..	..	..	..	1,950	..	..
Khair (manufactured) .. Mds. ..	720‡	1,87,265	..	..	..	..	..	..	720‡	1,87,265	..	..
Miscellaneous .. Value ..	..	3,376	..	17,289	..	250	..	..	..	20,915	..	..
Total Northern Circle ..	..	1,93,714	..	1,16,142	..	9,788	..	..	..	3,24,644	..	..

SOUTHERN CIRCLE.

Reserved Forests.

Honey	..	..	Mda.	..	‡	5	5,820	8,731	..	..	..	..	5,820	8,736
Wax	..	..	..	Mda.	..	‡	1	1,307	..	..	..	..	1,307	5,558
Golpetia	..	..	..	Mda.	..	3,000	120	96,050	..	..	..	..	96,050	6,349
Miscellaneous	..	..	..	Value	..	..	55	10,558	..	..	..	..	..	10,613
Total Southern Circle	..	..	..	..	..	181	..	31,575	..	..	..	..	..	31,756
Total, West Bengal	..	..	..	..	..	1,98,395	..	1,47,717	..	9,788	..	..	..	3,56,400

FORM No. 21.

(Paragraphs 37, 38 and 47.)

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during the year 1948-49.

Name of Division.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forests and sale depots.
1	2	3	4	5	6
	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
NORTHERN CIRCLE.					
<i>Timber.</i>					
Darjeeling ..	1,205	36,213	37,418	30,108	7,310
Kalimpong ..	11,879	54,803	66,682	39,043	27,639
Kurseong ..	175,827	295,177	471,004	245,627	225,377
Jalpaiguri ..	14,545	129,966	144,511	86,648	57,863
Buxa ..	24,687	390,614	415,301	75,317	339,984
Total ..	228,143	906,773	1,134,916	476,743	658,173
<i>Fuel.</i>					
Darjeeling ..	9,392	81,189	90,581	52,286	38,295
Kalimpong ..	3,520	54,277	57,797	39,102	18,695
Kurseong ..	148,729	595,582	744,311	482,754	261,557
Jalpaiguri ..	4,125	21,375	25,500	3,044	22,456
Buxa ..	169,384	766,217	935,601	799,507	136,094
Total ..	335,150	1,518,640	1,853,790	1,376,693	477,097
<i>Bamboos.</i>					
	Nos.	Nos.	Nos.	Nos.	Nos.
Kalimpong ..	..	1,250	1,250	1,250	..
Kurseong ..	400	463	863	763	100
Jalpaiguri ..	..	1,500	1,500	1,500	..
Buxa ..	1,000	1,625	2,625	2,625	..
Total ..	1,400	4,838	6,238	6,138	100

Name of Division.	Balance at commence- ment of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forests and sale depots.
1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
NORTHERN CIRCLE.					
<i>Minor produce.</i>					
Darjeeling ..	8	400	408	408	..
Kalimpong ..	311	4,540	4,851	3,387	1,464
Kurseong ..	643	2,125	2,768	2,458	310
Jalpaiguri ..	..	341	341	64	277
Buxa ..	(a) 62,623	1,90,908	2,53,531	2,685	2,50,846
Total ..	63,585	1,98,314	2,61,899	9,002	2,52,897
SOUTHERN CIRCLE.					
<i>Timber.</i>					
	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
24-Parganas ..	(a) 2,770	4,023	6,793	6,435	358
Total ..	2,770	4,023	6,793	6,435	358
<i>Fuel.</i>					
24-Parganas ..	(a) 22	572	594	484	110
Total ..	22	572	594	484	110
<i>Minor produce.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
24-Parganas ..	(a) 5	181	186	169	17
Total ..	5	181	186	169	17

(a) Revised figures.

FORM No. 22.

(Paragraphs 37, 38 and 47).

Abstract showing the value of timber and other produce at Sale Depots for the year 1948-49.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
	No.	C.ft.	Value.	No.	C.ft.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9
			Rs.			Rs.	Rs.	Rs.
NORTHERN CIRCLE.								
<i>Timber.</i>								
Timber in round ..	7,959	100,473	1,36,243	38,055	502,301	13,25,839	11,89,596	..
Sleepers ..	7,177	9,069	13,904	10,193	14,223	52,383	38,479	..
Sawn timber other than sleepers ..	169,320	118,601	3,83,219	225,928	141,649	5,41,416	1,58,197	..
Total ..	184,456	228,143	5,33,366	274,176	658,173	19,19,638	13,86,272	..
<i>Fuel.</i>								
Firewood and charcoal ..	..	(a) 335,150	29,156	..	477,097	56,462	27,306	..
Bamboos ..	1,400	..	100	100	..	5	..	95
Minor produce ..	..	..	(a) 63,585	..	..	2,52,897	1,89,312	..
Total Northern Circle ..	..	..	6,26,207	..	..	22,29,002	16,02,795	..

SOUTHERN CIRCLE.*Timber.*

Timber in round ..	(a) 2,559	(a) 2,755	(a) 310	162	216	39	..	271
Sawn timber other than sleepers ..	(a) 32	(a) 15	(a) 59	442	142	568	509	..
Total ..	(a) 2,591	(a) 2,770	(a) 369	604	358	607	238	..
<i>Fuel.</i>								
Firewood and charcoal ..	..	(a) 22	(a) 3	..	110	5	2	..
Minor produce ..	..	..	(a) 5	..	..	17	12	..
Total Southern Circle ..	..	..	(a) 377	..	..	629	252	..
Grand Total, West Bengal ..	..	..	6,26,584	..	..	22,29,631	16,03,047	..

(a) Corrected figures.

FORM No. 23.

(Paragraph 48).

Abstract showing the value of live and dead stock for the year 1948-49.

Description of live and dead stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.	
	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7
NORTHERN CIRCLE.						
<i>Live-stock.</i>						
Elephants	11	Rs. 71,000	10	57,250	Rs. ..	13,750
<i>Dead Stock.</i>						
Buildings	1,567	8,48,031	1,694	8,92,278	44,247	..
Stores (Mathematical)	2,343	20,424	1,836	16,140	..	4,284
Furniture	10,540	58,969	10,346	61,108	2,139	..
Tents	19	4,205	14	2,009	..	2,196
Miscellaneous	17,555	2,85,433	18,191	3,58,979	73,546	..
Total Dead stock	32,024	12,17,062	31,881	13,30,514	1,13,452	..
Total Northern Circle	32,035	12,88,062	31,891	13,87,764	99,702	..
SOUTHERN CIRCLE.						
<i>Live-stock.</i>						
Bullocks	2	264	3	849	585	..

Dead stock.

Buildings ..	91	2,05,311	131	4,56,548	2,51,237	..
Stores (Mathematical) ..	279	5,397	427	9,992	4,595	..
Stores (Ordnance) ..	23	10,800	26	11,390	590	..
Furniture ..	751	2,3027	1,476	45,119	22,092	..
Tents ..	10	(b) 2,277	21	5,542	3,265	..
Motor launches and boats ..	1	1,16,000	5	1,84,500	68,500	..
Motor vehicles ..	7	40,397	(a) 12	55,297	14,900	..
Boats and dinghies ..	54	51,390	55	50,220	..	1,170
Miscellaneous ..	1,366	16,272	2,873	36,115	19,843	..
Total Dead stock	2,581	4,70,871	5,026	8,54,723	3,83,852	..
Total Southern Circle	2,583	4,71,135	5,029	8,55,572	3,84,437	..
DEVELOPMENT CIRCLE.						
<i>Dead stock.</i>						
Buildings ..	..	..	31	73,542	73,542	..
Stores (Mathematical) ..	275	3,000	1,010	8,630	5,630	..
Furniture ..	532	13,070	1,174	27,380	14,310	..
Tents ..	10	1,561	17	4,316	2,755	..
Miscellaneous ..	569	4,775	1,218	18,579	13,804	..
Total Dead stock	1,386	22,406	3,450	1,32,447	1,10,041	..
Total Development Circle	1,386	22,406	3,450	1,32,447	1,10,041	..
Grand Total, West Bengal	..	17,81,603	..	23,75,783	5,94,180	..

Note.—The following stock of the Bengal Forest School was transferred from the accounts of the Northern Circle to those of the Development Circle during the year :—

Description.	No.	Value.
		Rs.
Buildings	38	79,811
Stores (Mathematical)	683	3,942
Furniture ..	461	4,453
Tents ..	7	2,755
Miscellaneous	297	10,407
Total	1,486	1,01,368

(a) Includes three trailers.

(b) Revised figure.

FORM No. 24.
(Paragraphs 44 and 45.)
Annual Statement of Revenue of the Forest Department, West Bengal, for the year 1948-49.

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jaldaguri.	West Bengal Forest School up to December 1948.	Total Northern Circle.	From January 1949.				Direction (D).	Total Development Circle.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Silvicultural.	Working Plans.	Utilisation.	West Bengal Forest School.	Rs.	Rs.
X—FOREST.														
Revenue.														
I.—Timber and other produce removed from the forests by Government Agency—														
(a) Timber	18,785	62,998	9,95,592	..	1,70,777	1,42,790	..	13,90,942	..	..	..	..	..	..
(b) Firewood and charcoal	2,094	3,340	1,39,361	..	91,767	420	..	2,37,452	..	..	..	..	..	..
(c) Bamboos .. ..	..	..	6	..	..	94	..	100	..	..	..	..	..	..
(d) Grass and other minor produce	400	249	2,702	..	1,700(a)	38	..	5,089	..	..	..	..	..	..
(e) Sandal wood ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total I	21,279	66,587	11,38,161	..	2,64,244	1,43,342	..	16,33,613	..	..	..	..	..	..
II.—Timber and other produce removed from the forests by consumers or purchasers—														
(a) Timber	1,94,086	3,23,967	81,042	..	12,15,953	11,39,650	..	29,54,737	..	..	..	..	..	..
(b) Firewood and charcoal	35,034	1,23,754	43,561	..	2,11,875	2,42,597	..	6,57,121	..	..	..	..	..	..
(c) Bamboos	2,988	8,176	1,349	..	2,850	440	..	15,753	..	..	..	..	..	..
(d) Grazing and fodder grass	14,364	9,287	2,135	..	737	1,312	..	27,835	..	..	..	..	..	..
(e) Other minor produce ..	5,735	19,703	16,433	..	10,675	19,138	..	71,734	..	..	..	..	..	..
(f) Commutation fees ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(g) Other items .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total II	2,52,157	4,84,987	1,44,820	..	14,42,120	14,03,196	..	37,27,190	..	..	..	..	..	..

III.—Drift and waif wood and confiscated forest produce.

IV.—Revenue from forests not managed by Government—

(a) Duty on foreign timber and other forest produce.

(b) Revenue from shared and private forests.

Total IV

V.—Miscellaneous—

(a) Fines and forfeitures

(b) Other sources

(c) Receipts (including rent) realised from works.

(d) Sales of forest produce purchased from trade.

Total V

VI.—Receipts in England—

High Commissioner

VII.—Loss or gain by exchange

VIII.—Deduct—Refund

Total X—Forest

Total Expenditure

Surplus

Deficit

19	985	..	..	15,707	129	..	16,840	..	..	..	..	..	..
..
..
..
..
33	458	..	..	483	1,551	..	2,525	..	..	..	..	..	..
46,273	17,300	22,094	902	25,309	13,570	5,325	1,80,776	145	138	79	1,122	..	1,484
1,141	1,426	1,032	..	1,107	2,157	63	6,931	..	..	..	25	..	25
1,957	..	..	..	73,473	2,23,331	..	2,00,011	..	..	..	..	..	..
49,404	10,184	23,126	902	1,00,372	2,40,559	5,396	4,30,243	145	138	79	1,147	..	1,509
..
..
-304	-3,824	-12,448	..	-780	-114	..	-17,510	..	..	..	..	..	..
3,22,555	5,67,519	12,93,619	902	14,21,663	17,87,412	5,396	57,99,366	145	138	79	1,147	..	1,509
2,82,907	4,20,423	8,78,757	1,16,554	8,23,084	5,17,213	36,517	30,96,060	13,236	18,654	21,850	30,410	12,798	96,987
30,643	1,47,391	4,14,862	..	9,97,079	12,70,199	..	27,03,306	..	..	..	..	..	..
..	..	..	1,15,652	..	..	51,121	..	13,091	18,546	21,771	29,272	12,798	95,478

(a) Vide Accountant General, West Bengal's letter No. TE (For.) 11789, dated 31st March 1950, item (2), read with the Divisional Forest Officer, Buxa Division's letter No. 14536/1-3, dated 6th December 1949.

Budget Heads.	24- Parganas.	Midna- pore.	Bankura.	Dirce- tion (S).	Bur- dwan.	Malda.	Central.	T. al Southern Circle.	General Direction.	Up to December 1948.			Total General Direc- tion Circle.	Grand Total.
										Silv- cultural.	Work- ing Plans.	Utilisa- tion.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
X.—FOREST—<i>concd.</i>														
Revenue—<i>concd.</i>														
I.—Timber and other produce removed from the forests by Government Agency—														
(a) Timber	1,374	..	..	..	..	..	..	1,374	..	..	..	..	13,92,316
(b) Firewood and charcoal .. ..	..	..	..	..	..	..	12	12	..	..	..	..	2,37,494
(c) Bamboos .. ..	..	..	..	..	..	..	..	..	..	..	..	..	100
(d) Grass and other minor produce.	..	..	..	..	..	..	..	..	..	..	..	..	5,071
(e) Sandal wood .. ..	..	..	..	..	..	..	..	..	..	..	..	..	18
Total I ..	1,374	..	..	..	..	..	12	1,386	..	..	..	..	16,34,909
II.—Timber and other produce removed from the forests by consumers or purchasers—														
(a) Timber	1,75,440	..	..	..	..	..	..	1,75,440	..	..	..	..	31,33,186
(b) Firewood and charcoal	52,809	..	..	..	..	..	..	52,809	..	..	..	..	7,10,920
(c) Bamboos .. ..	..	..	..	..	..	..	..	..	..	..	..	..	15,753
(d) Grazing and fodder grass .. ..	..	..	..	..	..	..	10	10	..	..	..	..	27,545
(e) Other minor produce	31,575	14	..	..	..	..	..	31,589	..	..	..	..	1,08,323
(f) Commutation fees .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..
(g) Other items .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total II ..	2,62,923	14	..	..	..	..	10	2,62,947	..	..	..	..	39,90,127

III.—Drift and half wood and confiscated forest produce.	614	..	..	..	..	..	..	614	..	..	..	..	..	..	..	17,454
IV.—Revenue from forests not managed by Government—																
(a) Duty on foreign timber and other forest produce.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Revenue from shared and private forests.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total IV ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V.—Miscellaneous—																
(a) Fines and forfeitures ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,525
(b) Other sources ..	33,257	12,226	153	31,349	102	63	77,150	1,747	..	54	146	1,947	..	..	..	2,11,367
(c) Receipts (including rent) realised from works.	240	2,670	577	..	..	742	4,229	..	..	..	..	..	..	..	..	11,185
(d) Sales of forest produce purchased from trade.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,99,011
Total V ..	33,497	14,896	730	31,349	102	805	81,379	1,747	..	54	146	1,947	..	..	..	5,24,078
VI.—Receipts in England—																
High Commissioner	..	..	..	..	..	..	..	7,989	..	..	..	7,989	..	..	..	7,989
VII.—Loss or gain by exchange	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VIII.—Deduct—Refund ..	-67	-3	-149	..	..	-7	-226	..	..	..	-10	-10	..	..	..	-17,746
Total X—Forest ..	2,98,341	14,907	551	31,349	102	820	3,40,100	9,736	..	54	136	9,926	..	..	..	61,56,901
Total Expenditure ..	3,53,651	3,445	1,11,208	69,382	..	..	5,42,686	2,14,913	51,195	29,245	33,958	3,28,641	40,64,374	..	..	..
Surplus ..	..	11,462	..	..	102	820	..	..	..	..	..	..	..	..	..	20,92,527
Deficit ..	60,310	..	1,10,627	38,033	..	..	1,96,586	2,05,177	51,195	29,191	33,152	3,18,715	..	..	..	..

Budget Heads.	Dar- jeeling.	Kalim- pong.	Kurseong.	Direction (S.).	Ruxa.	Jalpai- guri.	West Bengal Forest School up to Decem- ber 1948.	Total Northern Circle.	From January 1949.				Direc- tion (D).	Total Develop- ment Circle.
									Slivi- cultu- ral.	Work- ing Plans.	Utilisa- tion.	West Bengal Forest School.		
10.—FOREST Expenditure.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—Conservancy and Works.														
I.—Timber and other produce removed from the forest by Government Agency—														
(a) Timber	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	22,701	70,626	4,37,544	..	1,85,445	1,27,019	..	8,52,335	..	..	..	..	..	..
(b) Firewood and charcoal.	24,164	2,625	1,53,479	..	41,291	2,000	..	2,23,559	..	..	..	..	..	..
(c) Bamboos	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	1	..	..	..	..	1	..	..	..	..	..	..
(d) Grass and other minor produce.	301	34	..	..	79,279	..	..	79,695	..	..	..	..	..	..
(e) Sandal wood	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	540	..	..	..	..	..	540	..	..	..	..	..	..
(f) Customs duty on imported stores.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	47,166	82,825	5,96,024	..	3,06,006	1,29,019	..	11,61,040	..	..	..	..	..	..
Total I	..	..	..	..	..	..	..	..	..	..	..	..	..	..
II.—Timber and other produce removed from the forests by consumers or purchasers.														
(a) Timber	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	6,315	10,800*	1,000	..	10,850	25,824	..	54,790	..	..	..	..	..	..
Total II	6,315	10,800	1,000	..	10,850	25,824	..	54,790	..	..	..	..	..	..

Budget Heads.	24- Parganas.	Midnapore.	Bankura.	Direc- tion (S).	Burdwan.	Malda.	Central.	Total Southern Circle.	General Direction.	Up to December 1948.			Total General Direc- tion Circle.	Grand Total.
										Sylvic- cultural.	Work- ing Plans.	Utilisa- tion.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
10.—FOREST—contd.														
Expenditure—contd.														
A.—Conservancy and Works—contd.														
I.—Timber and other produce removed from the forest by Government Agency—														
(a) Timber	..	699	..	..	..	..	..	699	..	..	..	..	8,53,184
(b) Firewood and charcoal.	
(c) Bamboos	2,23,559	
(d) Grass and other minor produce.	1	
(e) Sandal wood	79,605	
(f) Customs duty on imported stores.	540	
Total I	..	699	..	..	..	..	..	699	..	..	..	..	11,61,739
II.—Timber and other produce removed from the forests by consumers or purchasers.	
(a) Timber	..	2,17,016	..	..	..	..	..	2,17,016	..	..	..	..	2,71,805
Total II	..	2,17,016	..	..	..	..	..	2,17,016	..	..	..	..	2,71,805

Budget Heads.	Dar- jeeling.	Kalim- pong.	Kunsong.	Direction (N).	Buxa.	Jalpai- gurl.	West Bengal Forest School up to Decem- ber 1945.	Total Northern Cirle.	From January 1949.				Direc- tion (D).	Total Develop- ment Cirle.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Silvi- culti- ral.	Work- ing Plans.	Utilisa- tion.	West Bengal Forest School.	Rs.	Rs.
10.—FOREST—contd. Expenditure—contd. A.—Conservancy and Works—contd.														
III.—Constructions, - Purchase, Maintenance, Repairs, etc.—														
(a) Cattle .. { C V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of { C cattle. V	..	400	400	..	1,443	1,301	..	3,544	..	..	..	..	..	..
(c) Stores, tools and { C plant. V	4,449	6,392	6,700	9,445	34,530	14,424	1,505	81,745	-4,068	472	6,453	505	1,257	4,619
(d) Roads and bridges { C V	35,663	41,667	16,500	..	40,900	42,004	800	1,78,619	..	..	..	..	..	..
(e) Buildings .. { C V	25,888	40,143	40,665	..	89,913	32,308	2,102	2,31,109	3,125	..	..	3,686	..	6,811
(f) Other works .. { C V	2,637	12,886	5,600	..	22,130	3,500	794	47,447	..	..	..	1,009	..	1,009
(g) Customs duty on { C imported stores. V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(h) Compensation for { C land and rights. V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total III .. { C V	68,542	1,01,488	69,865	9,445	1,93,006	94,617	5,504	5,42,467	943	472	6,453	5,200	1,257	12,439

Budget Heads.	24-Parganas.	Midnapore.	Bankura.	Dinajpur (S).	Burdwan.	Malda.	Central.	Total Southern Circle.	General Direction.	Up to December 1948.			Total General Direction Circle.	Grand Total.
										Sliv-cultural.	Working Plans.	Utilisation.		
10.—FOREST—contd.														
Expenditure—contd.														
<i>A.—Conservancy and Works—contd.</i>														
III.—Constructions, Purchase, Maintenance, Repairs, etc.—														
(a) Cattle { C .. { Y ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of cattle. { C .. { Y ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(c) Stores, tech. and plant. { C .. { Y ..	4,430	..	8,650	1,584	..	..	..	14,034	451	6,254	585	90	7,660	1,08,691
(d) Roads and bridges { C .. { Y ..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,78,619
(e) Buildings { C .. { Y ..	30,964	..	36,250	..	..	..	..	66,314	..	..	..	..	..	3,14,234
(f) Other works { C .. { Y ..	1,910	..	1,560	..	..	..	..	3,410	..	..	..	..	..	51,866
(g) Customs duty on imported stores. { C .. { Y ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(h) Compensation for land and rights. { C .. { Y ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total III { C .. { Y ..	36,404	..	46,400	1,584	..	..	..	84,388	451	6,254	585	90	7,660	6,46,954

Budget Heads.	Dar-jeeling.	Kalim-pang.	Kurseong.	Direction (N).	Buxa.	Jalpai-guri.	West Bengal Forest School up to December 1943.	Total Northern Circle.	From January 1949.				Direction (D).	Total Development Circle.
									Silvicultural.	Working Plans.	Utilisation.	West Bengal Forest School.		
	Ra.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10—FOREST—contd.														
Expenditure—contd.														
A.—Conservancy and Works—contd.														
IV.—Conservancy and Regeneration—														
(a) Maintenance of boundaries. { C V	.. 954	.. 11,550	.. 1,519	.. ..	.. 2,122	.. 1,785	.. ..	.. 17,930	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(b) Regeneration .. { C V	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(c) Fire protection { C V	19,291	17,690	30,668	.. ..	37,042	24,065	.. ..	1,29,727	405	.. ..	.. ..	.. ..	.. ..	405
(d) Other works .. { C V	2,647	1,052	2,880	.. ..	1,337	2,500	.. ..	10,916	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(e) Survey .. { C V	1,441	17,304	4,000	.. ..	18,723	8,000	.. ..	59,468	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(f) Customs duty on imported stores. { C V	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
(g) Compensation for land and rights. { C V	.. ..	44,965	.. ..	.. ..	.. ..	.. ..	.. ..	44,965	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Total IV .. { C V	24,808	92,561	39,068	.. ..	59,724	43,350	.. ..	2,62,008	405	.. ..	.. ..	.. ..	.. ..	405

Budget Heads.	From January 1949.					Total Northern Circle.	Direction (N).	Kursong.	Kalmipong.	Darjeeling.	Jalpaiguri.	West Bengal Forest School up to December 1945.	From January 1949.				Direction (D).	Total Development Circle.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Silvicultural.	Working Plans.	Utilisation.	West Bengal Forest School.	Rs.	Rs.
10.—FOREST—contd.																		
Expenditure—contd.																		
A.—Conservancy and Works—contd.																		
V.—Miscellaneous—																		
(a) Drift and waif wood and confiscated forest produce.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Revenue from forest not managed by Government, leased.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(c) Rent of forests and products of forests managed by Government.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Law charges ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(e) Dearness allowance ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(f) Clothing ..	836	829	..	..	..	..	69	833	..	..	..	60	..	179	..	1,190	..	1,366
(g) Other charges ..	593	4,673	..	..	..	..	..	602	..	..	..	220	..	27	23	326	..	2,777
(h) Working plans ..	200	180	..	..	..	..	..	200	..	..	..	..	..	6,445	..	..	..	6,445
(i) Customs duty on imported stores.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(j) Purchase of forest produce from Trade or from purchasers of standing trees.	50,337	1,59,051	..	..	..	..	..	4,00,329	..	..	..	11,30,745	..	..	..	..	..	..
Total V ..	..	1,64,733	..	..	..	..	69	1,933	..	..	..	280	..	6,051	23	1,516	..	10,588
Total V ..	51,966	1,64,733	..	..	..	..	69	1,933	..	..	..	280	..	6,051	23	1,516	..	10,588

Budget Heads.	24-Parganas	Midnapore	Bankura	Direction (S).	Burdwan.	Muhla.	Central.	Total Southern Circle.	General Direction.	Up to December 1948.			Total General Direction Circle.	Grand Total.
										Sylvicul- tural.	Work- ing Plans.	Utilisa- tion.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—FOREST—contd.														
Expenditure—contd.														
A.—Conteasancy and Works—contd.														
V.—Miscellaneous—														
(a) Drift and walf wood and disgregated forest produce { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Revenue from forest not managed by Government, leased. { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(c) Rent of forests and payments to shareholders in forest managed by Government. { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Law charges .. { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(e) Dearness allowance { V	200	..	..	..	..	..	..	200	..	..	..	..	..	200
(f) Clothing .. { C	6,756	..	..	..	..	..	..	6,756	..	..	..	..	..	6,756
(g) Other charges .. { V	2,830	..	617	..	..	..	..	3,447	118	58	..	..	176	12,103
(h) Working plans { C	784	..	5,729	..	..	..	..	6,510	..	1,289	1	426	1,715	18,289
(i) Customs duty on imported stores. { V	..	..	..	..	..	..	..	..	..	201	1,520	..	1,721	9,176
(j) Purchase of forest produce from Trade or from purchasers of standing trees. { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total V .. { V	10,570	..	6,343	..	..	..	..	16,913	118	1,547	1,521	426	3,612	11,86,269

Budget Heads.	Darjeeling.	Kalin- pong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	West Bengal Forest School up to Decem- ber 1948.	Total Northern Circle.	From January 1949.			West Bengal Forest School.	Direction (D).	Total Develop- ment Circle.
									Silti- cultural.	Working Plans.	Utilisa- tion.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—FOREST—contd.														
Expenditure—contd.														
B.—Establishment.														
1.—Pay of officers—														
(a) Conservators .. { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
.. { V	..	..	..	21,158	..	..	..	21,158	..	..	..	..	3,700	3,700
(b) Superior Officers { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
.. { V	4,487	8,100	990	2,242	9,483	12,382	..	37,684	1,127	2,271	1,015	—3,451	..	1,862
(c) Pay of recruits of { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
the Imperial Forest { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Service.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Provision for tem- { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
porary Forest Officer. { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deduct—Recoveries on { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
account of allotment { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
of pay of officers.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total 1 .. { C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
.. { V	4,487	8,100	990	23,400	9,483	12,382	..	53,842	1,127	2,271	1,015	—3,451	3,700	5,562

Budget Heads.	24-Parganas	Midnapore.	Bankura.	Dhokra (S).	Burdwan.	Malda.	Central.	Total Southern Circle.	General Direction.	Up to December 1943.			Total General Direction Circle.	Grand Total.
										Utilisation.	Working Plans.	Utilisation.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—FOREST—contd.														
Expenditure—contd.														
B.—Establishment.														
1.—Pay of officers—														
(a) Conservators .. { C { V	..	..	..	..	..	..	..	21,455	..	..	..	..	25,757	72,100
(b) Superior Officers { C { V	..	..	..	..	..	..	..	13,618	..	..	..	..	40,435	93,600
(c) Pay of recruits of the Imperial Forest Service. { C { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Provision for temporary Forest Officers. { C { V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deduct—Recoveries on account of allotment of pay of officers.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total 1 .. { C { V	..	..	..	..	..	..	..	35,073	42,861	13,500	6,300	..	66,222	1,65,700

Budget Heads.	Darjeeling.	Kalinpong.	Kurseong.	Dinapore (N.).	Buxa.	Jalpaiguri.	West Bengal Forest School Depot December 1948.	Total Northern Circle.	From January 1949.			West Bengal Forest School.	Direction (D).	Total Development Circle.
									Silvicultural.	Working Plans.	Utilisation.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10—FOREST—contd.														
Expenditure—contd.														
B—Establishment—contd.														
2.—Pay of Establishment—														
(a) Subordinate Forest and Depot Establishment.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(b) Office Establishment.	37,275	32,851	53,151	..	70,138	49,165	6,250	2,48,890	2,015	1,430	1,322	2,283	..	7,050
(c) Temporary Establishment.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Leave allowance.	8,119	6,934	8,613	7,331	(a) 13,539	11,810	1,748	58,094	1,112	862	959	588	920	4,441
(e) Sub-Assistant Surgeon.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(f) Extra cost in leave vacancies.	7,517	7,049	13,132	25,534	24,134	16,606	1,248	1,95,310	47	616	2,223	442	1,793	5,121
(g) Temporary Establishment for Central Government Timber Depots.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1,538	1,185	4,191	1,905	7,670	3,197	194	19,880	33	176	75	..	325	609

	..	..	..	..	1,764	..	..	1,764	..	..	..	..	..	..

	..	..	..	..	38	190	..	228	..	..	..	..	..	..

Total 2 ..	54,449	48,019	79,087	34,770	1,17,283	51,058	9,440	4,21,106	3,207	3,084	4,579	3,313	3,088	17,221

3.—Allowances and Honoraria—

(a) Travelling allowance. $\begin{cases} C \\ V \end{cases}$	25,715	25,933	28,790	7,911	46,136	34,149	10,216	1,78,450	4,152	3,030	2,502	12,286	1,639	23,609
(b) Other allowances $\begin{cases} C \\ V \end{cases}$	4,296	9,090	5,619	7,163	315	72	17,263	43,818	712	843	868	6,562	599	9,584
(c) Cost of passage, etc. $\begin{cases} C \\ V \end{cases}$	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(d) Dearness allowance $\begin{cases} C \\ V \end{cases}$	42,487	34,332	47,212	18,626	72,145	53,497	9,856	2,78,155	1,945	1,070	2,951	3,609	1,571	12,046
(e) Allowances to temporary staff for Central Government Timber Depots. $\begin{cases} C \\ V \end{cases}$	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total 3 $\begin{cases} C \\ V \end{cases}$	72,498	69,355	87,621	33,700	1,15,596	87,718	38,217	3,01,705	6,809	5,843	6,321	22,457	3,809	45,239

(a) Vide the Accountant-General, West Bengal's letter No. TE (For.) 1789, dated the 31st January 1950, to the Divisional Forest Officer, Buxa Division, and the Divisional Forest Officer, Buxa Division's letter No. 1109/1(2)/I-13, dated the 6th November 1951.

Budget Heads.	24- Parganas.	Midna- pore.	Bankura.	Direc- tion (S).	Pur- dwan.	Malda.	Central.	Total Southern Circ.	General Direction.	Up to December 1948.			Total General Direction Circ.	Grand Total.
										Si- vil- cultural	Work- ing Plans.	Utilisa- tion.		
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—FOREST—contd.														
Expenditure—contd.														
B.—Establishment—contd.														
2.—Pay of Establishment—														
(a) Subordinate Forest and Depot Estab- lishment.	83,482	..	3,220	..	..	..	..	36,702	156	6,079	5,108	2,070	..	3,05,993
(b) Office Establish- ment.	7,193	17	528	7,669	..	..	..	15,407	3,195	2,620	2,424	3,517	11,756	89,698
(c) Temporary Estab- lishment.	460	90	13,045	13,109	..	..	..	26,704	26,923	..	1,976	6,826	35,725	1,62,360
(d) Leave allowance	3,064	..	1,567	1,298	..	..	..	5,929	1,654	984	410	612	3,660	30,078
(e) Sub-Assistant Surgeon.	..	..	..	..	..	..	..	..	..	..	..	..	..	1,764
(f) Extra cost in leave vacancies.	212	..	69	..	..	..	..	251	..	38	..	..	38	547
(g) Temporary Estab- lishment for Central Government timber Depots.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	44,411	107	18,429	22,076	..	..	..	85,023	31,928	9,721	9,916	13,025	64,590	5,90,940

Budget Heads.	Darjeeling.	Kalimpong.	Kurseong.	Direction (N).	Buxa.	Jalpaiguri.	West Bengal Forest School up to December 1948.	Total Northern Circle.	From January 1949.			West Bengal Forest School.	Direction (D).	Total Development Circle.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Silvicultural.	Working Plans.	Utilisation.	Rs.	Rs.	Rs.
10.—FOREST—contd.														
Expenditure—contd.														
B.—Establishment—contd.														
4.—Contingencies—														
(a) Stationery .. { C V	.. 350	.. 102	.. 52	.. 351	.. 355	.. 100	.. 46	.. 1,356	.. 1	.. 32	.. 21	.. 20	.. 198	.. 272
(b) Carriage of tents and records. { C V	.. 17	.. 5	.. 20	.. 1,138	.. 145	.. 6	..	.. 1,331	.. 572	..	.. 874	..	.. 6	.. 302
(c) Rents, rates and taxes. { C V	.. 583	.. 626	.. 607	.. 4,890	.. 33	.. 2,074	..	.. 8,803	.. 18	..	.. 60	..	..	.. 78
(d) Official postage { C V	.. 988	.. 1,303	.. 2,000	.. 2,000	.. 2,945	.. 2,400	.. 200	.. 11,836	.. 290	.. 29	.. 668	.. 151	.. 200	.. 1,248
(e) Sundries .. { C V	.. 2,229	.. 2,843	.. 6,782	.. 6,612	.. 5,222	.. 6,016	.. 2,834	.. 32,533	.. 432	.. 302	.. 540	.. 1,208	.. 546	.. 3,028
(f) Purchase of books { C V	.. 5	.. 46	.. 44	.. 180	.. 96	.. 101	.. 6	.. 487	.. 160	..	.. 396	.. 5	.. 44	.. 605
(g) Contingencies for temporary staff for Central Government Timber Depots. { C V	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total 4 { C V	.. 4,172	.. 4,930	.. 9,505	.. 15,170	.. 8,796	.. 10,697	.. 3,076	.. 56,346	.. 233	.. 383	.. 2,559	.. 1,884	.. 994	.. 5,533

Budget Heads.	24- Parganas.	Midna- pore.	Bankura.	Dixitpur (S).	Burdwan.	Malda.	Central.	Total Southern Circle.	Up to December 1948.	Total General Direction Circle.	Grand Total.
									General Direc- tion.	Work- ing plans.	Utilisa- tion.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
10.—FOREST—contd.											
Expenditure—contd.											
C.—Interest on Capital $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
D.—Charges in England—											
(a) Leave and deputa- tion salaries, etc. $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
(b) Sterling Overseas pay. $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
(c) Allotment of pay of officers. $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
(d) Other charges .. $\begin{Bmatrix} C \\ V \end{Bmatrix}$	..	..	..	..	..	..	..	..	..	..	..
Total D .. $\begin{Bmatrix} C \\ V \end{Bmatrix}$
								25,088		25,088	25,088

[illegible]

Southern Circle.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Budget heads.		Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the department at end of year.
1	2						
Development Circle.							
R.I.a.	Sale of timber extracted departmentally ..	....	....	....	....	....
R.I.b.	Sale of fuel extracted departmentally ..	....	....	....	....	....
R.I.c.	Sale of bamboos extracted departmentally ..	....	....	....	....	....
R.I.d.	Sale of grass and other minor produce extracted departmentally.	....	....	....	....	....
R.II.a.	Sale of timber extracted by consumers or purchasers.	....	....	....	....	....
R.II.b.	Sale of firewood and charcoal extracted by consumers or purchasers.	....	....	....	....	....
R.II.c.	Sale of bamboos extracted by consumers or purchasers.	....	....	....	....	....
R.II.d.	Sale of grazing and fodder grass extracted by consumers or purchasers.	....	....	....	....	....
R.II.e.	Sale of other minor produce extracted by consumers or purchasers.	....	....	....	....	....
R.II.f.	Commutation fees (for produce extracted by consumers or purchasers).	....	....	....	....	....
R.II.g.	Sale of other items extracted by consumers or purchasers.	....	....	....	....	....
R.II.h.	Sale of drift and walk wood and confiscated forest produce.	....	....	....	....	....
R.V.a.	Fines and forfeitures ..	....	....	....	....	....
R.V.b.	Other sources ..	....	1,484 0 0	1,484 0 0	1,484 0 0	....
R.V.c.	Receipts (including rent) realised from works.	....	25 0 0	25 0 0	25 0 0	....
R.V.d.	Sale of forest produce purchased from trade.	....	....	....	....	....
R.VI	Receipts in England ..	....	....	....	....	....
R.VII	Loss or gain by exchange ..	....	....	....	....	....
R.VIII	Debit—Refund ..	....	....	....	....	....
..	..	Total Development Circle ..	....	1,500 0 0	1,500 0 0	1,500 0 0	....

General Direction Circle									
B.I.a.	..	..	..	..	..	..	..	..	..
B.I.b.	..	..	..	..	..	..	..	..	..
B.I.c.	..	..	..	..	..	..	..	..	..
B.I.d.	..	..	..	..	..	..	..	..	..
B.II.a.	..	..	..	..	..	..	..	..	..
B.II.b.	..	..	..	..	..	..	..	..	..
B.II.c.	..	..	..	..	..	..	..	..	..
B.II.d.	..	..	..	..	..	..	..	..	..
B.II.e.	..	..	..	..	..	..	..	..	..
B.II.f.	..	..	..	..	..	..	..	..	..
B.II.g.	..	..	..	..	..	..	..	..	..
B.III	..	..	..	..	..	..	..	..	..
B.V.a.	..	..	..	..	..	..	..	..	..
B.V.b.	..	..	..	..	..	..	..	..	..
B.V.c.	..	..	..	..	..	..	..	..	..
B.V.d.	..	..	..	..	..	..	..	..	..
B.VI	..	..	..	..	..	..	..	..	..
B.VII.	..	..	..	..	..	..	..	..	..
B.VIII	..	..	..	..	..	..	..	..	..
Total General Direction Circle		..	..	..	..	..	..	..	..
Grand Total—West Bengal		..	18,84,881 5 9	55,88,528 8 0	74,08,409 8 9	61,56,901 15 0	13,11,607 9 9		

FORM No. 27.

(Paragraph 49.)

Outstandings and liabilities on account of disbursers for 1948-49.

Division.	Department debtor.			Department creditor.			Balance due.	
	Opening balance.	Recoveries in cash and value of supplies and work done during the year.	Total.	Opening balance.	Payments made during the year.	Total.	To department (outstandings).	By department (liabilities).
	2	3	4	5	6	7	8	9
1	Ra. a. p.	Ra. a. p.	Ra. a. p.	Ra. a. p.	Ra. a. p.	Ra. a. p.	Ra. a. p.	Ra. a. p.
NORTHERN CIRCLE.								
Darjeeling Division	2,29,995 14 6	2,29,995 14 6	419 0 0	2,30,528 14 9	2,30,945 14 9	950 0 3	....
Kalimpong Division	4,29,682 15 9	4,29,682 15 9	330 0 0	4,26,197 0 6	4,29,527 0 6	....	105 15 3
Kurseong Division	8,52,345 1 0	8,52,345 1 0	1,008 0 9	8,51,959 1 9	8,52,967 2 8	622 1 6	....
Direction (North)	2,869 0 0	2,869 0 0	3,217 14 0	2,875 0 0	6,092 14 0	3,223 14 0	....
Buxa Division	9,90,727 11 3	9,90,727 11 3	1,090 10 0	9,94,720 0 9	9,95,810 10 9	5,082 15 6	....
Jalpaiguri Division	4,50,815 1 0	4,50,815 1 0	1,085 3 0	4,49,963 6 6	4,51,048 9 6	233 8 6	....
Total Northern Circle	29,53,335 11 6	29,53,335 11 6	7,150 11 9	29,56,241 8 3	29,65,392 4 0	10,112 7 9	105 15 3
DEVELOPMENT CIRCLE.								
Silvicultural Division	22,178 14 3	22,178 14 3	3,115 12 0	22,387 12 3	25,508 8 3	3,324 10 0	....
Working Plans Division	12,446 2 6	12,446 2 6	563 0 0	11,990 2 6	12,553 2 6	107 0 0	....
Utilisation Division	2,285 0 0	2,285 0 0	10 0 0	2,176 0 0	2,186 0 0	....	99 0 0
Direction (Development) Division	657 0 0	657 0 0	....	842 0 0	842 0 0	185 0 0	....
West Bengal Forest School	4,093 6 0	4,093 6 0	2,495 0 0	2,327 6 0	4,822 6 0	724 0 0	....
Total Development Circle	41,665 6 9	41,665 6 9	6,183 12 0	38,723 4 9	45,907 0 9	4,340 10 0	99 0 0
Total General Direction Circle	3,597 11 0	3,597 11 0	598 11 0	5,324 0 0	5,922 11 0	2,325 0 0	....

CO SOUTHERN CIRCLE.

Airport Direction ..	....	583 8 0	583 8 0	2,020 0 0	1,133 0 0	8,753 0 0	2,104 8 0	....
Central Division ..	....	93,144 5 0	93,144 5 0	18 0 3	93,006 8 9	93,024 9 0	....	119 12 0
24-Parganas Division ..	....	1,71,099 3 0	1,71,099 3 0	3,026 7 3	1,70,905 3 9	1,73,981 11 0	2,832 8 0	....
Midnapore Division ..	....	2,63,976 4 0	2,63,976 4 0	335 8 3	2,63,966 11 9	2,64,302 4 0	326 0 0	....
Bankura Division ..	311 0 0	61,214 15 6	61,525 15 6	....	61,278 8 6	61,278 8 6	....	247 7 0
Burdwan Division ..	....	5,302 9 9	5,302 9 9	....	5,877 9 9	5,877 9 9	575 0 0	....
Malda Division ..	....	9,144 0 0	9,144 0 0	....	9,210 0 0	9,210 0 0	66 0 0	....
Total Southern Circle ..	311 0 0	6,04,469 13 3	6,04,780 13 3	5,999 15 9	6,05,377 10 6	6,11,377 10 3	6,964 0 0	367 3 0
Grand Total ..	311 0 0	36,03,118 10 6	36,03,429 10 6	19,933 2 6	36,00,666 7 6	36,26,599 10 0	23,742 1 9	572 2 3

S. C. PAL,
Assistant Accounts Officer, West Bengal.

